D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919165.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

17I0244-08@25X
17I0244-17@50X
17I0531-05@10X
17I0242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919168.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
17I0319-04@25X

D:\HPCHEM\1\DATA\A092017\A0920140.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/21/17
Data File Name	A0920140.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	435241	470609	-8
c - 10	1.64	444152	470609	-6
c - 12	2.37	461128	470609	-2
c - 14	3.04	470801	470609	0
c - 16	3.65	482122	470609	2
c - 18	4.28	479416	470609	2
o-Terphenyl	4.57	533634	470609	
c - 20	4.89	487497	470609	4
c - 22	5.39	497649	470609	6
c - 24	5.83	465793	470609	-1
c - 26	6.23	490017	470609	4
c - 28	6.59	481800	470609	2
c - 30	6.92	474737	470609	1
c - 32	7.23	461489	470609	-2
c - 34	7.53	463004	470609	-2
c - 36	7.87	464291	470609	-1

* One compound allowed %D <= 50%

Samples

17I0242-18RE1@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0242

Laboratory Sample ID(s):

17I0242-01 thru 17I0242-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/21/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0243

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0243

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-3-1	17I0243-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-3-2	17I0243-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-3-3	17I0243-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-6-1	17I0243-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-6-2	17I0243-05	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-15-SO-6-3	17I0243-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-4-1	17I0243-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-4-2	17I0243-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-4-3	17I0243-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-9-1	17I0243-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-9-2	17I0243-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-9-3	17I0243-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-10-1	17I0243-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-10-2	17I0243-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-10-3	17I0243-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-5-1	17I0243-16	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0243

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-5-2	17I0243-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-5-3	17I0243-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-14-1	17I0243-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-14-2	17I0243-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

CT ETPH

B186235-MS1, B186235-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0243-01[WS-AOC-15-SO-3-1], 17I0243-04[WS-AOC-15-SO-6-1], 17I0243-10[WS-AOC-15-SO-9-1], 17I0243-13[WS-AOC-15-SO-10-1], 17I0243-19[WS-AOC-15-SO-14-1], B186235-MS1, B186235-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0243-16[WS-AOC-15-SO-5-1]

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

Nitrobenzene-d5

17I0243-05[WS-AOC-15-SO-6-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1 Sampled: 9/7/2017 08:42

Sample ID: 17I0243-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/18/17 16:59
Decachlorobiphenyl [2]	89.9	30-150		9/18/17 16:59
Tetrachloro-m-xylene [1]	80.5	30-150		9/18/17 16:59
Tetrachloro-m-xylene [2]	74.0	30-150		9/18/17 16:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1 Sampled: 9/7/2017 08:42

Sample ID: 17I0243-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	9400	2400	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 18:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/18/17 18:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-1 Sampled: 9/7/2017 08:42

Sample ID: 17I0243-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-2 Sampled: 9/7/2017 08:43

Sample ID: 17I0243-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.3	30-150		9/18/17 17:12
Decachlorobiphenyl [2]	78.0	30-150		9/18/17 17:12
Tetrachloro-m-xylene [1]	76.5	30-150		9/18/17 17:12
Tetrachloro-m-xylene [2]	76.6	30-150		9/18/17 17:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-2 Sampled: 9/7/2017 08:43

Sample ID: 17I0243-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-3 Sampled: 9/7/2017 08:44

Sample ID: 17I0243-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/18/17 17:24
Decachlorobiphenyl [2]	101	30-150		9/18/17 17:24
Tetrachloro-m-xylene [1]	99.2	30-150		9/18/17 17:24
Tetrachloro-m-xylene [2]	96.5	30-150		9/18/17 17:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-3-3 Sampled: 9/7/2017 08:44

Sample ID: 17I0243-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1 Sampled: 9/7/2017 08:47

Sample ID: 17I0243-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.9	30-150		9/18/17 17:36
Decachlorobiphenyl [2]	94.9	30-150		9/18/17 17:36
Tetrachloro-m-xylene [1]	93.4	30-150		9/18/17 17:36
Tetrachloro-m-xylene [2]	87.9	30-150		9/18/17 17:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1 Sampled: 9/7/2017 08:47

Sample ID: 17I0243-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4900	2100	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 18:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/18/17 18:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-1 Sampled: 9/7/2017 08:47

Sample ID: 17I0243-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2 Sampled: 9/7/2017 08:48

Sample ID: 17I0243-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(a)anthracene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(a)pyrene	0.93	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(b)fluoranthene	1.4	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(g,h,i)perylene	0.59	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Benzo(k)fluoranthene	0.44	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Chrysene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Fluoranthene	1.9	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Indeno(1,2,3-cd)pyrene	0.66	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Phenanthrene	0.85	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL
Pyrene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 14:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	30.0	30-130	S-07	9/15/17 14:22
2-Fluorobiphenyl	35.2	30-130		9/15/17 14:22
p-Terphenyl-d14	39.0	30-130		9/15/17 14:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2 Sampled: 9/7/2017 08:48

Sample ID: 17I0243-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.3	30-150		9/18/17 17:49
Decachlorobiphenyl [2]	81.9	30-150		9/18/17 17:49
Tetrachloro-m-xylene [1]	73.8	30-150		9/18/17 17:49
Tetrachloro-m-xylene [2]	70.6	30-150		9/18/17 17:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-2 Sampled: 9/7/2017 08:48

Sample ID: 17I0243-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-3 Sampled: 9/7/2017 08:49

Sample ID: 17I0243-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		9/18/17 18:01
Decachlorobiphenyl [2]	92.6	30-150		9/18/17 18:01
Tetrachloro-m-xylene [1]	102	30-150		9/18/17 18:01
Tetrachloro-m-xylene [2]	106	30-150		9/18/17 18:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-6-3 Sampled: 9/7/2017 08:49

Sample ID: 17I0243-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-1 Sampled: 9/7/2017 08:53

Sample ID: 17I0243-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		9/18/17 18:14
Decachlorobiphenyl [2]	96.5	30-150		9/18/17 18:14
Tetrachloro-m-xylene [1]	95.4	30-150		9/18/17 18:14
Tetrachloro-m-xylene [2]	90.8	30-150		9/18/17 18:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-1 Sampled: 9/7/2017 08:53

Sample ID: 17I0243-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-2 Sampled: 9/7/2017 08:54

Sample ID: 17I0243-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		9/18/17 18:26
Decachlorobiphenyl [2]	86.7	30-150		9/18/17 18:26
Tetrachloro-m-xylene [1]	98.2	30-150		9/18/17 18:26
Tetrachloro-m-xylene [2]	101	30-150		9/18/17 18:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-2 Sampled: 9/7/2017 08:54

Sample ID: 17I0243-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3 Sampled: 9/7/2017 08:55

Sample ID: 17I0243-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.7	30-150		9/18/17 18:38
Decachlorobiphenyl [2]	85.4	30-150		9/18/17 18:38
Tetrachloro-m-xylene [1]	99.0	30-150		9/18/17 18:38
Tetrachloro-m-xylene [2]	105	30-150		9/18/17 18:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3 Sampled: 9/7/2017 08:55

Sample ID: 17I0243-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	21	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/17/17 19:08	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	60.2	50-150		9/17/17 19:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-4-3 Sampled: 9/7/2017 08:55

Sample ID: 17I0243-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1 Sampled: 9/7/2017 09:05

Sample ID: 17I0243-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		9/18/17 18:51
Decachlorobiphenyl [2]	82.9	30-150		9/18/17 18:51
Tetrachloro-m-xylene [1]	92.3	30-150		9/18/17 18:51
Tetrachloro-m-xylene [2]	88.7	30-150		9/18/17 18:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1 Sampled: 9/7/2017 09:05

Sample ID: 17I0243-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	1100	mg/Kg dry	100		CTDEP ETPH	9/14/17	9/18/17 17:16	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/18/17 17:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-1 Sampled: 9/7/2017 09:05

Sample ID: 17I0243-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-2 Sampled: 9/7/2017 09:06

Sample ID: 17I0243-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.7	30-150		9/18/17 19:03
Decachlorobiphenyl [2]	81.4	30-150		9/18/17 19:03
Tetrachloro-m-xylene [1]	79.7	30-150		9/18/17 19:03
Tetrachloro-m-xylene [2]	74.3	30-150		9/18/17 19:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-2 Sampled: 9/7/2017 09:06

Sample ID: 17I0243-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:52	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-3 Sampled: 9/7/2017 09:07

Sample ID: 17I0243-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/18/17 19:16
Decachlorobiphenyl [2]	85.2	30-150		9/18/17 19:16
Tetrachloro-m-xylene [1]	83.8	30-150		9/18/17 19:16
Tetrachloro-m-xylene [2]	90.7	30-150		9/18/17 19:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-9-3 Sampled: 9/7/2017 09:07

Sample ID: 17I0243-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.9	30-150		9/18/17 20:15
Decachlorobiphenyl [2]	85.1	30-150		9/18/17 20:15
Tetrachloro-m-xylene [1]	97.8	30-150		9/18/17 20:15
Tetrachloro-m-xylene [2]	96.3	30-150		9/18/17 20:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1800	570	mg/Kg dry	50		CTDEP ETPH	9/14/17	9/18/17 17:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/18/17 17:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-2 Sampled: 9/7/2017 09:12

Sample ID: 17I0243-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/18/17 20:28
Decachlorobiphenyl [2]	89.4	30-150		9/18/17 20:28
Tetrachloro-m-xylene [1]	89.6	30-150		9/18/17 20:28
Tetrachloro-m-xylene [2]	88.5	30-150		9/18/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-2 Sampled: 9/7/2017 09:12

Sample ID: 17I0243-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-3 Sampled: 9/7/2017 09:13

Sample ID: 17I0243-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		9/18/17 20:40
Decachlorobiphenyl [2]	93.0	30-150		9/18/17 20:40
Tetrachloro-m-xylene [1]	100	30-150		9/18/17 20:40
Tetrachloro-m-xylene [2]	102	30-150		9/18/17 20:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-10-3 Sampled: 9/7/2017 09:13

Sample ID: 17I0243-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-16

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Acenaphthylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(a)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(a)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(b)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(g,h,i)perylene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Benzo(k)fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Chrysene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Dibenz(a,h)anthracene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Fluoranthene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Fluorene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Indeno(1,2,3-cd)pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
2-Methylnaphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Naphthalene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Phenanthrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL
Pyrene	ND	1.5	mg/Kg dry	4		SW-846 8270D	9/14/17	9/15/17 14:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	30.3	30-130		9/15/17 14:47
2-Fluorobiphenyl	35.2	30-130		9/15/17 14:47
p-Terphenyl-d14	40.8	30-130		9/15/17 14:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.3	30-150		9/18/17 20:53
Decachlorobiphenyl [2]	85.5	30-150		9/18/17 20:53
Tetrachloro-m-xylene [1]	89.0	30-150		9/18/17 20:53
Tetrachloro-m-xylene [2]	85.9	30-150		9/18/17 20:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-1 Sampled: 9/7/2017 09:11

Sample ID: 17I0243-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2 Sampled: 9/7/2017 09:12

Sample ID: 17I0243-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.9	30-150		9/18/17 21:05
Decachlorobiphenyl [2]	85.0	30-150		9/18/17 21:05
Tetrachloro-m-xylene [1]	88.1	30-150		9/18/17 21:05
Tetrachloro-m-xylene [2]	92.3	30-150		9/18/17 21:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2 Sampled: 9/7/2017 09:12

Sample ID: 17I0243-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	61	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/17/17 19:26	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.8	50-150		9/17/17 19:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-2 Sampled: 9/7/2017 09:12

Sample ID: 17I0243-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-3 Sampled: 9/7/2017 09:13

Sample ID: 17I0243-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.6	30-150		9/18/17 21:18
Decachlorobiphenyl [2]	102	30-150		9/18/17 21:18
Tetrachloro-m-xylene [1]	95.2	30-150		9/18/17 21:18
Tetrachloro-m-xylene [2]	96.1	30-150		9/18/17 21:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-5-3 Sampled: 9/7/2017 09:13

Sample ID: 17I0243-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1 Sampled: 9/7/2017 09:23

Sample ID: 17I0243-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.3	30-150		9/18/17 21:30
Decachlorobiphenyl [2]	81.8	30-150		9/18/17 21:30
Tetrachloro-m-xylene [1]	93.2	30-150		9/18/17 21:30
Tetrachloro-m-xylene [2]	96.3	30-150		9/18/17 21:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1 Sampled: 9/7/2017 09:23

Sample ID: 17I0243-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	320	230	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/18/17 14:53	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/18/17 14:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-1 Sampled: 9/7/2017 09:23

Sample ID: 17I0243-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-2 Sampled: 9/7/2017 09:24

Sample ID: 17I0243-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.1	30-150		9/18/17 21:42
Decachlorobiphenyl [2]	91.1	30-150		9/18/17 21:42
Tetrachloro-m-xylene [1]	102	30-150		9/18/17 21:42
Tetrachloro-m-xylene [2]	107	30-150		9/18/17 21:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0243

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-2 Sampled: 9/7/2017 09:24

Sample ID: 17I0243-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186235	30.0	2.00	09/14/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186235	30.0	2.00	09/14/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186235	30.0	1.00	09/14/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186235	30.0	1.00	09/14/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186235	30.1	1.00	09/14/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186235	30.1	1.00	09/14/17
17I0243-19 [WS-AOC-15-SO-14-1]	B186235	30.1	1.00	09/14/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186104	09/13/17
17I0243-02 [WS-AOC-15-SO-3-2]	B186104	09/13/17
17I0243-03 [WS-AOC-15-SO-3-3]	B186104	09/13/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186104	09/13/17
17I0243-05 [WS-AOC-15-SO-6-2]	B186104	09/13/17
17I0243-06 [WS-AOC-15-SO-6-3]	B186104	09/13/17
17I0243-07 [WS-AOC-15-SO-4-1]	B186104	09/13/17
17I0243-08 [WS-AOC-15-SO-4-2]	B186104	09/13/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186104	09/13/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186104	09/13/17
17I0243-11 [WS-AOC-15-SO-9-2]	B186104	09/13/17
17I0243-12 [WS-AOC-15-SO-9-3]	B186104	09/13/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186104	09/13/17
17I0243-14 [WS-AOC-15-SO-10-2]	B186104	09/13/17
17I0243-15 [WS-AOC-15-SO-10-3]	B186104	09/13/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186104	09/13/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186104	09/13/17
17I0243-18 [WS-AOC-15-SO-5-3]	B186104	09/13/17
17I0243-19 [WS-AOC-15-SO-14-1]	B186104	09/13/17
17I0243-20 [WS-AOC-15-SO-14-2]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-01 [WS-AOC-15-SO-3-1]	B186157	10.1	10.0	09/13/17
17I0243-02 [WS-AOC-15-SO-3-2]	B186157	10.0	10.0	09/13/17
17I0243-03 [WS-AOC-15-SO-3-3]	B186157	10.1	10.0	09/13/17
17I0243-04 [WS-AOC-15-SO-6-1]	B186157	10.0	10.0	09/13/17
17I0243-05 [WS-AOC-15-SO-6-2]	B186157	10.0	10.0	09/13/17
17I0243-06 [WS-AOC-15-SO-6-3]	B186157	10.0	10.0	09/13/17
17I0243-07 [WS-AOC-15-SO-4-1]	B186157	10.1	10.0	09/13/17
17I0243-08 [WS-AOC-15-SO-4-2]	B186157	10.0	10.0	09/13/17
17I0243-09 [WS-AOC-15-SO-4-3]	B186157	10.0	10.0	09/13/17
17I0243-10 [WS-AOC-15-SO-9-1]	B186157	10.1	10.0	09/13/17
17I0243-11 [WS-AOC-15-SO-9-2]	B186157	10.0	10.0	09/13/17
17I0243-12 [WS-AOC-15-SO-9-3]	B186157	10.0	10.0	09/13/17
17I0243-13 [WS-AOC-15-SO-10-1]	B186157	10.0	10.0	09/13/17
17I0243-14 [WS-AOC-15-SO-10-2]	B186157	10.0	10.0	09/13/17
17I0243-15 [WS-AOC-15-SO-10-3]	B186157	10.0	10.0	09/13/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186157	10.0	10.0	09/13/17
17I0243-17 [WS-AOC-15-SO-5-2]	B186157	10.0	10.0	09/13/17
17I0243-18 [WS-AOC-15-SO-5-3]	B186157	10.1	10.0	09/13/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-19 [WS-AOC-15-SO-14-1]	B186157	10.0	10.0	09/13/17
17I0243-20 [WS-AOC-15-SO-14-2]	B186157	10.0	10.0	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0243-05 [WS-AOC-15-SO-6-2]	B186232	30.7	1.00	09/14/17
17I0243-16 [WS-AOC-15-SO-5-1]	B186232	30.0	2.00	09/14/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186232 - SW-846 3546										
Blank (B186232-BLK1)				Prepared: 09/14/17 Analyzed: 09/15/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.64*		mg/Kg wet	3.33		49.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.01*		mg/Kg wet	3.33		60.2	30-130			
Surrogate: p-Terphenyl-d14	*3.08*		mg/Kg wet	3.33		92.3	30-130			
LCS (B186232-BS1)				Prepared: 09/14/17 Analyzed: 09/15/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140			
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140			
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.72*		mg/Kg wet	3.33		81.6	30-130			
Surrogate: p-Terphenyl-d14	*3.10*		mg/Kg wet	3.33		93.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186232 - SW-846 3546										
LCS Dup (B186232-BSD1)				Prepared: 09/14/17 Analyzed: 09/15/17						
Acenaphthene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	5.02	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	5.82	30	
Anthracene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140	3.90	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	3.96	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	5.12	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.40	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.56	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	4.54	30	
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	3.07	30	
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	4.28	30	
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	1.60	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	5.02	30	
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	7.08	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	14.6	30	
Naphthalene	0.889	0.17	mg/Kg wet	1.67		53.4	40-140	19.5	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	3.06	30	
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	3.90	30	
Surrogate: Nitrobenzene-d5	*1.85*		mg/Kg wet	3.33		55.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.49*		mg/Kg wet	3.33		74.6	30-130			
Surrogate: p-Terphenyl-d14	*2.98*		mg/Kg wet	3.33		89.4	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186157 - SW-846 3540C										
Blank (B186157-BLK1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.200		77.8	30-150			
LCS (B186157-BS1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.5	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.9	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.217*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		75.1	30-150			
LCS Dup (B186157-BSD1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.9	40-140	3.04	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.5	40-140	7.61	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.2	40-140	2.80	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.0	40-140	4.39	30	
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186157 - SW-846 3540C										
Matrix Spike (B186157-MS1)		**Source: 17I0243-13**		Prepared: 09/13/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.092	mg/Kg dry	0.230	ND	81.0	40-140			
Aroclor-1016 [2C]	0.16	0.092	mg/Kg dry	0.230	ND	71.4	40-140			
Aroclor-1260	0.14	0.092	mg/Kg dry	0.230	ND	59.3	40-140			
Aroclor-1260 [2C]	0.13	0.092	mg/Kg dry	0.230	ND	56.6	40-140			
Surrogate: Decachlorobiphenyl	*0.170*		mg/Kg dry	0.230		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg dry	0.230		82.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg dry	0.230		89.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg dry	0.230		87.1	30-150			
Matrix Spike Dup (B186157-MSD1)		**Source: 17I0243-13**		Prepared: 09/13/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.092	mg/Kg dry	0.230	ND	84.4	40-140	4.13	50	
Aroclor-1016 [2C]	0.16	0.092	mg/Kg dry	0.230	ND	71.5	40-140	0.126	50	
Aroclor-1260	0.14	0.092	mg/Kg dry	0.230	ND	59.3	40-140	0.0641	50	
Aroclor-1260 [2C]	0.13	0.092	mg/Kg dry	0.230	ND	57.0	40-140	0.757	50	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg dry	0.230		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.230		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg dry	0.230		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg dry	0.230		94.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186235 - SW-846 3546											
Blank (B186235-BLK1)				Prepared: 09/14/17 Analyzed: 09/17/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.2		50-150			
LCS (B186235-BS1)				Prepared: 09/14/17 Analyzed: 09/17/17							
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1		60-120			
Surrogate: o-Terphenyl	*2.98*		mg/Kg wet	3.33		89.5		50-150			
LCS Dup (B186235-BSD1)				Prepared: 09/14/17 Analyzed: 09/17/17							
CT ETPH	23.1	10	mg/Kg wet	33.3		69.2		60-120	1.54	30	
Surrogate: o-Terphenyl	*2.97*		mg/Kg wet	3.33		89.2		50-150			
Matrix Spike (B186235-MS1)	**Source: 17I0243-13**			Prepared: 09/14/17 Analyzed: 09/19/17							
CT ETPH	1960	570	mg/Kg dry	38.3	1810	**386**	*	50-150			MS-19
Surrogate: o-Terphenyl	*0.00*		mg/Kg dry	3.83			*	50-150			S-01
Matrix Spike Dup (B186235-MSD1)	**Source: 17I0243-13**			Prepared: 09/14/17 Analyzed: 09/19/17							
CT ETPH	1590	570	mg/Kg dry	38.1	1810	**-562**	*	50-150	20.4	30	MS-19
Surrogate: o-Terphenyl	*0.00*		mg/Kg dry	3.81			*	50-150			S-01

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186104 - % Solids										
Duplicate (B186104-DUP5)		**Source: 17I0243-10**		Prepared: 09/13/17	Analyzed: 09/14/17					
% Solids	89.1		% Wt		91.3			2.44	20	
Duplicate (B186104-DUP6)		**Source: 17I0243-11**		Prepared: 09/13/17	Analyzed: 09/14/17					
% Solids	76.4		% Wt		79.7			4.23	20	
Duplicate (B186104-DUP7)		**Source: 17I0243-12**		Prepared: 09/13/17	Analyzed: 09/14/17					
% Solids	78.8		% Wt		80.3			1.89	20	
Duplicate (B186104-DUP8)		**Source: 17I0243-13**		Prepared: 09/13/17	Analyzed: 09/14/17					
% Solids	86.7		% Wt		87.1			0.460	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0243

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	GRPH	PAH									# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-15-SO-3-1	9/7/17	0842		X	S	U	X	X												
02	WS-AOC-15-SO-3-2	9/7/17	0843		X	S	U	X													
03	WS-AOC-15-SO-3-3	9/7/17	0844		X	S	U	X													
04	WS-AOC-15-SO-6-1	9/7/17	0847		X	S	U	X	X												
05	WS-AOC-15-SO-6-2	9/7/17	0848		X	S	U	X		X											
06	WS-AOC-15-SO-6-3	9/7/17	0849		X	S	U	X													
07	WS-AOC-15-SO-4-1	9/7/17	0853		X	S	U	X													
08	WS-AOC-15-SO-4-2	9/7/17	0854		X	S	U	X													
09	WS-AOC-15-SO-4-3	9/7/17	0855		X	S	U	X	X	PAH											
10	WS-AOC-15-SO-9-1	9/7/17	0905		X	S	U	X	X	PAH											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/7/17 1510
Received by: (signature)	Date/Time: 9/7/17 1510
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 9-7-17 4:00
Relinquished by: (signature)	Date/Time: 9-7-17 5:05
Received by: (signature)	Date/Time: 9/7/17 17:05

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

17I0243

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	PAH										# of Containers	[2] Preservation Code	[3] Container Code
								1												1	I	A
11	WS-ADC-15-SO-9-2	9/7/17	0906		X	S	U	X														
12	WS-ADC-15-SO-9-3	9/7/17	0907		X	S	U	X														
13	WS-ADC-15-SO-~~10~~-1	9/7/17	0911		X	S	U	X	X													
14	WS-ADC-15-SO-10-2	9/7/17	0912		X	S	U	X														
15	WS-ADC-15-SO-10-3	9/7/17	0913		X	S	U	X														
16	WS-ADC-15-SO-5-1	9/7/17	0911		X	S	U	X		X												
17	WS-ADC-15-SO-5-2	9/7/17	0912		X	S	U	X	X													
18	WS-ADC-15-SO-5-3	9/7/17	0913		X	S	U	X														
19	WS-ADC-15-SO-14-1	9/7/17	0923		X	S	U	X	X													
20	WS-ADC-15-SO-14-2	9/7/17	0924		X	S	U	X														

Comments:

Please hold excess volumes for possible SPLP analyses.
Please analyze WS-ADC-15-SO-10-1 for MS/MSD also. for ETPH/PCBs

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Relinquished by: (signature)	Date/Time: 9/7/17 1510	
Received by: (signature)	Date/Time: 9/7/17 1510	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 9-7-17	
Relinquished by: (signature)	Date/Time: 9-7-17 5:05	
Received by: (signature) 3.0/24°C	Date/Time: 9/7/17 17:05	

Detection Limit Requirements

MA	
CT	RES DEC
Other:	

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson Engineers

Received By WCG Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0°C/2.4°C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? T MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091717.SEC\A0917007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/17/17
Data File Name	A0917007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	597076	636547	-6
c - 10	1.62	605287	636547	-5
c - 12	2.34	626376	636547	-2
c - 14	3.01	640333	636547	1
c - 16	3.61	656511	636547	3
c - 18	4.23	650510	636547	2
o-Terphenyl	4.51	726871	636547	
c - 20	4.83	660040	636547	4
c - 22	5.34	670890	636547	5
c - 24	5.77	626137	636547	-2
c - 26	6.16	658819	636547	3
c - 28	6.52	649880	636547	2
c - 30	6.85	641260	636547	1
c - 32	7.16	621701	636547	-2
c - 34	7.45	622676	636547	-2
c - 36	7.77	620710	636547	-2

* One compound allowed %D <= 50%

Samples

17I0572-03
17I0243-09
17I0243-17

D:\HPCHEM\1\DATA\A091717.SEC\A0917041.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/17/17
Data File Name	A0917041.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	639717	689121	-7
c - 10	1.63	654249	689121	-5
c - 12	2.35	680470	689121	-1
c - 14	3.01	696715	689121	1
c - 16	3.61	713676	689121	4
c - 18	4.23	705868	689121	2
o-Terphenyl	4.51	787004	689121	
c - 20	4.83	715274	689121	4
c - 22	5.34	725953	689121	5
c - 24	5.77	676931	689121	-2
c - 26	6.16	711325	689121	3
c - 28	6.52	701176	689121	2
c - 30	6.85	692215	689121	0
c - 32	7.16	672885	689121	-2
c - 34	7.45	675274	689121	-2
c - 36	7.77	675089	689121	-2

* One compound allowed %D </= 50%

Samples

17I0350-01
17I0374-02
17I0374-04
17I0325-03
17I0325-04

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918033.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples
17I0243-10@100X
17I0325-09@25X
17I0243-13@50X
17I0243-01@100X
17I0243-04@100X
17I0241-01
17I0241-19
17I0242-12
17I0244-20
17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples
17I0247-01
17I0247-02
17I0374-01
17I0240-10
17I0374-03
17I0234-03@5X
17I0234-08@5X

17

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0918085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
17I0317-12
17I0317-20
17I0320-04
17I0320-08
17I0320-16

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0243

Laboratory Sample ID(s):

17I0243-01 thru 17I0243-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/19/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 20, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0244

Enclosed are results of analyses for samples received by the laboratory on September 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0244

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-14-3	17I0244-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-11-1	17I0244-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-11-2	17I0244-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-11-3	17I0244-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-13-1	17I0244-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-13-2	17I0244-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-13-3	17I0244-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-12-1	17I0244-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-12-2	17I0244-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-12-3	17I0244-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-22-1	17I0244-11	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-22-2	17I0244-12	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-15-SO-22-3	17I0244-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-16-1	17I0244-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-16-2	17I0244-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-16-3	17I0244-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-23-1	17I0244-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0244

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-23-2	17I0244-18	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-15-SO-23-3	17I0244-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-17-1	17I0244-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0244-05[WS-AOC-15-SO-13-1], 17I0244-14[WS-AOC-15-SO-16-1], 17I0244-17[WS-AOC-15-SO-23-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3 Sampled: 9/7/2017 09:25

Sample ID: 17I0244-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		9/19/17 15:36
Decachlorobiphenyl [2]	106	30-150		9/19/17 15:36
Tetrachloro-m-xylene [1]	83.4	30-150		9/19/17 15:36
Tetrachloro-m-xylene [2]	84.9	30-150		9/19/17 15:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-14-3 Sampled: 9/7/2017 09:25

Sample ID: 17I0244-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1 Sampled: 9/7/2017 09:20

Sample ID: 17I0244-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 15:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.0	30-150		9/19/17 15:53
Decachlorobiphenyl [2]	75.2	30-150		9/19/17 15:53
Tetrachloro-m-xylene [1]	77.4	30-150		9/19/17 15:53
Tetrachloro-m-xylene [2]	73.3	30-150		9/19/17 15:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1 Sampled: 9/7/2017 09:20

Sample ID: 17I0244-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	480	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	60.2	50-150		9/20/17 2:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-1 Sampled: 9/7/2017 09:20

Sample ID: 17I0244-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2 Sampled: 9/7/2017 09:21

Sample ID: 17I0244-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		9/19/17 16:11
Decachlorobiphenyl [2]	81.9	30-150		9/19/17 16:11
Tetrachloro-m-xylene [1]	95.5	30-150		9/19/17 16:11
Tetrachloro-m-xylene [2]	90.1	30-150		9/19/17 16:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-2 Sampled: 9/7/2017 09:21

Sample ID: 17I0244-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3 Sampled: 9/7/2017 09:22

Sample ID: 17I0244-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:28	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/19/17 16:28
Decachlorobiphenyl [2]	98.4	30-150		9/19/17 16:28
Tetrachloro-m-xylene [1]	86.1	30-150		9/19/17 16:28
Tetrachloro-m-xylene [2]	83.9	30-150		9/19/17 16:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-11-3 Sampled: 9/7/2017 09:22

Sample ID: 17I0244-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1 Sampled: 9/7/2017 09:33

Sample ID: 17I0244-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 16:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		9/19/17 16:46
Decachlorobiphenyl [2]	109	30-150		9/19/17 16:46
Tetrachloro-m-xylene [1]	94.4	30-150		9/19/17 16:46
Tetrachloro-m-xylene [2]	91.6	30-150		9/19/17 16:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1 Sampled: 9/7/2017 09:33

Sample ID: 17I0244-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	620	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 17:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/19/17 17:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-1 Sampled: 9/7/2017 09:33

Sample ID: 17I0244-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/19/17 17:03
Decachlorobiphenyl [2]	78.3	30-150		9/19/17 17:03
Tetrachloro-m-xylene [1]	79.4	30-150		9/19/17 17:03
Tetrachloro-m-xylene [2]	79.6	30-150		9/19/17 17:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-2 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3 Sampled: 9/7/2017 09:40

Sample ID: 17I0244-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		9/19/17 17:21
Decachlorobiphenyl [2]	91.8	30-150		9/19/17 17:21
Tetrachloro-m-xylene [1]	92.4	30-150		9/19/17 17:21
Tetrachloro-m-xylene [2]	90.9	30-150		9/19/17 17:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-13-3 Sampled: 9/7/2017 09:40

Sample ID: 17I0244-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1 Sampled: 9/7/2017 09:37

Sample ID: 17I0244-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.0	30-150		9/19/17 17:38
Decachlorobiphenyl [2]	91.6	30-150		9/19/17 17:38
Tetrachloro-m-xylene [1]	88.7	30-150		9/19/17 17:38
Tetrachloro-m-xylene [2]	84.9	30-150		9/19/17 17:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1 Sampled: 9/7/2017 09:37

Sample ID: 17I0244-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	270	mg/Kg dry	25		CTDEP ETPH	9/14/17	9/20/17 13:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.1	50-150		9/20/17 13:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-1 Sampled: 9/7/2017 09:37

Sample ID: 17I0244-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 17:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		9/19/17 17:56
Decachlorobiphenyl [2]	87.8	30-150		9/19/17 17:56
Tetrachloro-m-xylene [1]	90.4	30-150		9/19/17 17:56
Tetrachloro-m-xylene [2]	90.0	30-150		9/19/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-2 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.8	30-150		9/19/17 19:01
Decachlorobiphenyl [2]	103	30-150		9/19/17 19:01
Tetrachloro-m-xylene [1]	96.0	30-150		9/19/17 19:01
Tetrachloro-m-xylene [2]	96.0	30-150		9/19/17 19:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-12-3 Sampled: 9/7/2017 09:39

Sample ID: 17I0244-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1 Sampled: 9/7/2017 10:07

Sample ID: 17I0244-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		9/19/17 19:18
Decachlorobiphenyl [2]	90.9	30-150		9/19/17 19:18
Tetrachloro-m-xylene [1]	91.7	30-150		9/19/17 19:18
Tetrachloro-m-xylene [2]	87.0	30-150		9/19/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1 Sampled: 9/7/2017 10:07

Sample ID: 17I0244-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	540	110	mg/Kg dry	10		CTDEP ETPH	9/14/17	9/20/17 2:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.9	50-150		9/20/17 2:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-1 Sampled: 9/7/2017 10:07

Sample ID: 17I0244-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2 Sampled: 9/7/2017 10:08

Sample ID: 17I0244-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)anthracene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(a)pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(b)fluoranthene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(g,h,i)perylene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Indeno(1,2,3-cd)pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Phenanthrene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL
Pyrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	58.7	30-130		9/14/17 13:30
2-Fluorobiphenyl	64.7	30-130		9/14/17 13:30
p-Terphenyl-d14	66.0	30-130		9/14/17 13:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2 Sampled: 9/7/2017 10:08

Sample ID: 17I0244-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.7	30-150		9/19/17 19:36
Decachlorobiphenyl [2]	92.6	30-150		9/19/17 19:36
Tetrachloro-m-xylene [1]	80.2	30-150		9/19/17 19:36
Tetrachloro-m-xylene [2]	77.7	30-150		9/19/17 19:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-2 Sampled: 9/7/2017 10:08

Sample ID: 17I0244-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3 Sampled: 9/7/2017 10:09

Sample ID: 17I0244-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 19:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		9/19/17 19:53
Decachlorobiphenyl [2]	99.3	30-150		9/19/17 19:53
Tetrachloro-m-xylene [1]	95.5	30-150		9/19/17 19:53
Tetrachloro-m-xylene [2]	98.5	30-150		9/19/17 19:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-22-3 Sampled: 9/7/2017 10:09

Sample ID: 17I0244-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1 Sampled: 9/7/2017 10:05

Sample ID: 17I0244-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/19/17 20:11
Decachlorobiphenyl [2]	113	30-150		9/19/17 20:11
Tetrachloro-m-xylene [1]	104	30-150		9/19/17 20:11
Tetrachloro-m-xylene [2]	103	30-150		9/19/17 20:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1 Sampled: 9/7/2017 10:05

Sample ID: 17I0244-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	630	430	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 18:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/19/17 18:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-1 Sampled: 9/7/2017 10:05

Sample ID: 17I0244-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2 Sampled: 9/7/2017 10:06

Sample ID: 17I0244-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:28	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		9/19/17 20:28
Decachlorobiphenyl [2]	87.5	30-150		9/19/17 20:28
Tetrachloro-m-xylene [1]	95.3	30-150		9/19/17 20:28
Tetrachloro-m-xylene [2]	94.7	30-150		9/19/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-2 Sampled: 9/7/2017 10:06

Sample ID: 17I0244-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3 Sampled: 9/7/2017 10:07

Sample ID: 17I0244-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 20:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.3	30-150		9/19/17 20:46
Decachlorobiphenyl [2]	96.0	30-150		9/19/17 20:46
Tetrachloro-m-xylene [1]	93.9	30-150		9/19/17 20:46
Tetrachloro-m-xylene [2]	93.1	30-150		9/19/17 20:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-16-3 Sampled: 9/7/2017 10:07

Sample ID: 17I0244-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1 Sampled: 9/7/2017 10:25

Sample ID: 17I0244-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		9/19/17 21:03
Decachlorobiphenyl [2]	84.7	30-150		9/19/17 21:03
Tetrachloro-m-xylene [1]	90.0	30-150		9/19/17 21:03
Tetrachloro-m-xylene [2]	86.9	30-150		9/19/17 21:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1 Sampled: 9/7/2017 10:25

Sample ID: 17I0244-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1500	550	mg/Kg dry	50		CTDEP ETPH	9/14/17	9/20/17 14:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 14:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-1 Sampled: 9/7/2017 10:25

Sample ID: 17I0244-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2 Sampled: 9/7/2017 10:26

Sample ID: 17I0244-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)anthracene	0.40	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(a)pyrene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(b)fluoranthene	0.51	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(g,h,i)perylene	0.25	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Chrysene	0.55	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluoranthene	0.82	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Indeno(1,2,3-cd)pyrene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Naphthalene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Phenanthrene	0.79	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL
Pyrene	0.64	0.21	mg/Kg dry	1		SW-846 8270D	9/12/17	9/14/17 13:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	61.5	30-130		9/14/17 13:56
2-Fluorobiphenyl	68.8	30-130		9/14/17 13:56
p-Terphenyl-d14	67.8	30-130		9/14/17 13:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2 Sampled: 9/7/2017 10:26

Sample ID: 17I0244-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		9/19/17 21:20
Decachlorobiphenyl [2]	93.3	30-150		9/19/17 21:20
Tetrachloro-m-xylene [1]	84.9	30-150		9/19/17 21:20
Tetrachloro-m-xylene [2]	82.3	30-150		9/19/17 21:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-2 Sampled: 9/7/2017 10:26

Sample ID: 17I0244-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3 Sampled: 9/7/2017 10:27

Sample ID: 17I0244-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.8	30-150		9/19/17 21:38
Decachlorobiphenyl [2]	94.0	30-150		9/19/17 21:38
Tetrachloro-m-xylene [1]	92.7	30-150		9/19/17 21:38
Tetrachloro-m-xylene [2]	97.4	30-150		9/19/17 21:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-23-3 Sampled: 9/7/2017 10:27

Sample ID: 17I0244-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1 Sampled: 9/7/2017 10:43

Sample ID: 17I0244-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/12/17	9/19/17 21:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		9/19/17 21:55
Decachlorobiphenyl [2]	96.5	30-150		9/19/17 21:55
Tetrachloro-m-xylene [1]	95.7	30-150		9/19/17 21:55
Tetrachloro-m-xylene [2]	94.1	30-150		9/19/17 21:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1 Sampled: 9/7/2017 10:43

Sample ID: 17I0244-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	78	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 20:50	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	63.7	50-150		9/18/17 20:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0244

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-1 Sampled: 9/7/2017 10:43

Sample ID: 17I0244-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-02 [WS-AOC-15-SO-11-1]	B186230	30.1	1.00	09/14/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186230	30.0	2.00	09/14/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186230	30.0	1.00	09/14/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186230	30.0	1.00	09/14/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186230	30.0	2.00	09/14/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186230	30.1	1.00	09/14/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186230	30.0	1.00	09/14/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186104	09/13/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186104	09/13/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186104	09/13/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186104	09/13/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186104	09/13/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186104	09/13/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186104	09/13/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186104	09/13/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186104	09/13/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186104	09/13/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186104	09/13/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186104	09/13/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186104	09/13/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186104	09/13/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186104	09/13/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186104	09/13/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186104	09/13/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186104	09/13/17
17I0244-19 [WS-AOC-15-SO-23-3]	B186104	09/13/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186104	09/13/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-01 [WS-AOC-15-SO-14-3]	B186068	10.0	10.0	09/12/17
17I0244-02 [WS-AOC-15-SO-11-1]	B186068	10.0	10.0	09/12/17
17I0244-03 [WS-AOC-15-SO-11-2]	B186068	10.0	10.0	09/12/17
17I0244-04 [WS-AOC-15-SO-11-3]	B186068	10.0	10.0	09/12/17
17I0244-05 [WS-AOC-15-SO-13-1]	B186068	10.0	10.0	09/12/17
17I0244-06 [WS-AOC-15-SO-13-2]	B186068	10.0	10.0	09/12/17
17I0244-07 [WS-AOC-15-SO-13-3]	B186068	10.0	10.0	09/12/17
17I0244-08 [WS-AOC-15-SO-12-1]	B186068	10.0	10.0	09/12/17
17I0244-09 [WS-AOC-15-SO-12-2]	B186068	10.0	10.0	09/12/17
17I0244-10 [WS-AOC-15-SO-12-3]	B186068	10.0	10.0	09/12/17
17I0244-11 [WS-AOC-15-SO-22-1]	B186068	10.0	10.0	09/12/17
17I0244-12 [WS-AOC-15-SO-22-2]	B186068	10.0	10.0	09/12/17
17I0244-13 [WS-AOC-15-SO-22-3]	B186068	10.0	10.0	09/12/17
17I0244-14 [WS-AOC-15-SO-16-1]	B186068	10.0	10.0	09/12/17
17I0244-15 [WS-AOC-15-SO-16-2]	B186068	10.0	10.0	09/12/17
17I0244-16 [WS-AOC-15-SO-16-3]	B186068	10.0	10.0	09/12/17
17I0244-17 [WS-AOC-15-SO-23-1]	B186068	10.0	10.0	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186068	10.0	10.0	09/12/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-19 [WS-AOC-15-SO-23-3]	B186068	10.0	10.0	09/12/17
17I0244-20 [WS-AOC-15-SO-17-1]	B186068	10.0	10.0	09/12/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0244-12 [WS-AOC-15-SO-22-2]	B186035	30.0	1.00	09/12/17
17I0244-18 [WS-AOC-15-SO-23-2]	B186035	30.0	1.00	09/12/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186035 - SW-846 3546										
Blank (B186035-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.35*		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.67*		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	*3.30*		mg/Kg wet	3.33		98.9	30-130			
LCS (B186035-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene	0.931	0.17	mg/Kg wet	1.67		55.9	40-140			
Acenaphthylene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Fluorene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.1	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.6	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186035 - SW-846 3546										
LCS Dup (B186035-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene	0.973	0.17	mg/Kg wet	1.67		58.4	40-140	4.34	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	7.44	30	
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	6.92	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	5.73	30	
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	9.94	30	
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	6.93	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	8.41	30	
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140	7.83	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	6.68	30	
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	7.86	30	
Fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	6.79	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	7.79	30	
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	8.75	30	
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	7.39	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	4.48	30	
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	4.22	30	
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	5.80	30	
Surrogate: Nitrobenzene-d5	*2.37*		mg/Kg wet	3.33		71.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.65*		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	*3.00*		mg/Kg wet	3.33		90.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186068 - SW-846 3540C										
Blank (B186068-BLK1)				Prepared: 09/12/17 Analyzed: 09/19/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.136*		mg/Kg wet	0.200		67.8	30-150			
LCS (B186068-BS1)				Prepared: 09/12/17 Analyzed: 09/19/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.4	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		67.3	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.132*		mg/Kg wet	0.200		66.0	30-150			
LCS Dup (B186068-BSD1)				Prepared: 09/12/17 Analyzed: 09/19/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.7	40-140	8.16	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140	9.86	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.5	40-140	7.23	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	7.08	30	
Surrogate: Decachlorobiphenyl	*0.223*		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		70.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186068 - SW-846 3540C										
Matrix Spike (B186068-MS1)		**Source: 17I0244-01**		Prepared: 09/12/17 Analyzed: 09/19/17						
Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	90.5	40-140			
Aroclor-1016 [2C]	0.18	0.089	mg/Kg dry	0.224	ND	80.6	40-140			
Aroclor-1260	0.17	0.089	mg/Kg dry	0.224	ND	76.0	40-140			
Aroclor-1260 [2C]	0.17	0.089	mg/Kg dry	0.224	ND	76.1	40-140			
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg dry	0.224		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.224		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg dry	0.224		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg dry	0.224		91.9	30-150			
Matrix Spike Dup (B186068-MSD1)		**Source: 17I0244-01**		Prepared: 09/12/17 Analyzed: 09/19/17						
Aroclor-1016	0.20	0.089	mg/Kg dry	0.224	ND	91.3	40-140	0.955	50	
Aroclor-1016 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	83.4	40-140	3.34	50	
Aroclor-1260	0.18	0.089	mg/Kg dry	0.224	ND	81.6	40-140	7.10	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.224	ND	85.2	40-140	11.3	50	
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg dry	0.224		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg dry	0.224		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.200*		mg/Kg dry	0.224		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.205*		mg/Kg dry	0.224		91.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186230 - SW-846 3546										
Blank (B186230-BLK1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.96*		mg/Kg wet	3.33		88.9	50-150			
LCS (B186230-BS1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	*2.89*		mg/Kg wet	3.33		86.7	50-150			
LCS Dup (B186230-BSD1)				Prepared: 09/14/17 Analyzed: 09/15/17						
CT ETPH	26.1	10	mg/Kg wet	33.3		78.4	60-120	3.81	30	
Surrogate: o-Terphenyl	*3.02*		mg/Kg wet	3.33		90.6	50-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0244

http://www.contestlabs.com Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	PAHs										# of Containers / [2] Preservation Code / [3] Container Code
								1												# of Containers
								I												[2] Preservation Code
								A												[3] Container Code
01	WS-AOC-15-SO-14-3	9/7/17	0925		X	S	U	X												
02	WS-AOC-15-SO-11-1	9/7/17	0920		X	S	U	X	X											
03	WS-AOC-15-SO-11-2	9/7/17	0921		X	S	U	X												
04	WS-AOC-15-SO-11-3	9/7/17	0922		X	S	U	X												
05	WS-AOC-15-SO-13-1	9/7/17	0933		X	S	U	X	X											
06	WS-AOC-15-SO-13-2	9/7/17	0939		X	S	U	X												
07	WS-AOC-15-SO-13-3	9/7/17	0940		X	S	U	X												
08	WS-AOC-15-SO-12-1	9/7/17	0937		X	S	U	X	X											
09	WS-AOC-15-SO-12-2	9/7/17	0939		X	S	U	X												
10	WS-AOC-15-SO-12-3	9/7/17	0939		X	S	U	X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/7/17 1510
Received by: (signature)	Date/Time: 9/7/17 1610
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 9-7-17 4:0
Relinquished by: (signature)	Date/Time: 9-7-17 5:05
Received by: (signature) 3.0/2.4°C 9/7/17	Date/Time: 17:05

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Fax: 413-525-6405
Email: info@contestlabs.com

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
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Page _____ of _____

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Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	RCB Sonut	EPH	PAH										# of Containers / [2] Preservation Code / [3] Container Code
								I	I	A										
11	WS-AOC-15-SO-22-1	9/7/17	1007		X	S	U	X	X											
12	WS-AOC-15-SO-22-2	9/7/17	1008		X	S	U	X		X										
13	WS-AOC-15-SO-22-3	9/7/17	1009		X	S	U	X												
14	WS-AOC-15-SO-16-1	9/7/17	1005		X	S	U	X	X											
15	WS-AOC-15-SO-16-2	9/7/17	1006		X	S	U	X												
16	WS-AOC-15-SO-16-3	9/7/17	1007		X	S	U	X												
17	WS-AOC-15-SO-23-1	9/7/17	1025		X	S	U	X	X											
18	WS-AOC-15-SO-23-2	9/7/17	1026		X	S	U	X		X										
19	WS-AOC-15-SO-23-3	9/7/17	1027		X	S	U	X												
20	WS-AOC-15-SO-17-1	9/7/17	1043		X	S	U	X	X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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DW = Drinking Water
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Relinquished by: (signature)	Date/Time: 9/7/17 1510
Received by: (signature)	Date/Time: 9/7/17 1510
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 9-7-17 4:00
Relinquished by: (signature)	Date/Time: 9-7-17 5:05
Received by: (signature) 3.0/0.4	Date/Time: 9/7/17 17:07

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson Engineers

Received By WCG Date 9/7/17 Time 17:05

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.0/2.4°C
By Blank # ____ Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? T MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918033.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples
17I0243-10@100X
17I0325-09@25X
17I0243-13@50X
17I0243-01@100X
17I0243-04@100X
17I0241-01
17I0241-19
17I0242-12
17I0244-20
17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples
17I0247-01
17I0247-02
17I0374-01
17I0240-10
17I0374-03
17I0234-03@5X
17I0234-08@5X

17

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0918085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
17I0317-12
17I0317-20
17I0320-04
17I0320-08
17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919034.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples
17I0380-07
17I0380-08
17I0408-01
17I0408-02
17I0408-03
17I0408-04
17I0408-05
17I0408-06
17I0408-07
17I0408-08
17I0539-06
17I0539-07

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CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919080.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples
17I0719-04
17I0719-07
17I0719-04
17I0719-08@20X
17I0719-09@10X
17I0241-16@5X
17I0244-11@10X
17I0317-01@5X
17I0317-08@5X
17I0317-12@5X
17I0317-16@5X
17I0317-20@5X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A091917.SEC\A0919165.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919165.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581953	610650	-5
c - 10	1.62	593472	610650	-3
c - 12	2.34	610263	610650	0
c - 14	3.01	616782	610650	1
c - 16	3.61	626257	610650	3
c - 18	4.23	613483	610650	0
o-Terphenyl	4.51	680975	610650	
c - 20	4.83	616619	610650	1
c - 22	5.33	622698	610650	2
c - 24	5.77	580341	610650	-5
c - 26	6.16	612913	610650	0
c - 28	6.52	610060	610650	0
c - 30	6.85	612659	610650	0
c - 32	7.16	604431	610650	-1
c - 34	7.45	632261	610650	4
c - 36	7.76	625559	610650	2

* One compound allowed %D <= 50%

Samples

17I0244-08@25X
17I0244-17@50X
17I0531-05@10X
17I0242-18@5X

D:\HPCHEM\1\DATA\A091917\A0919168.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919168.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	558217	618025	-10
c - 10	1.64	570347	618025	-8
c - 12	2.37	590423	618025	-4
c - 14	3.04	604014	618025	-2
c - 16	3.65	622199	618025	1
c - 18	4.28	620256	618025	0
o-Terphenyl	4.56	698283	618025	
c - 20	4.89	633684	618025	3
c - 22	5.39	649827	618025	5
c - 24	5.83	613392	618025	-1
c - 26	6.23	650665	618025	5
c - 28	6.59	645040	618025	4
c - 30	6.92	639031	618025	3
c - 32	7.23	621839	618025	1
c - 34	7.53	625161	618025	1
c - 36	7.87	626287	618025	1

* One compound allowed %D <= 50%

Samples

17I0539-05@5X
17I0319-04@25X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0244

Laboratory Sample ID(s):

17I0244-01 thru 17I0244-20

Sample Date(s):

09/07/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/20/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 20, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0317

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-35-1	17I0317-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-35-2	17I0317-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-35-3	17I0317-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-32-1	17I0317-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-32-2	17I0317-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-32-3	17I0317-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-11-1	17I0317-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-11-2	17I0317-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-11-3	17I0317-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-11-4	17I0317-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-6-1	17I0317-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-6-2	17I0317-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-6-3	17I0317-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-6-4	17I0317-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-12-1	17I0317-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-12-2	17I0317-16	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-12-3	17I0317-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-12-4	17I0317-18	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0317

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-6-SO-5-1	17I0317-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-5-2	17I0317-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0317-12[WS-AOC-6-SO-6-2], B186332-MS1, B186332-MSD1

S-23

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:

o-Terphenyl

B186332-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1 Sampled: 9/8/2017 09:38

Sample ID: 17I0317-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		9/19/17 17:02
Decachlorobiphenyl [2]	97.2	30-150		9/19/17 17:02
Tetrachloro-m-xylene [1]	109	30-150		9/19/17 17:02
Tetrachloro-m-xylene [2]	109	30-150		9/19/17 17:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1 Sampled: 9/8/2017 09:38

Sample ID: 17I0317-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	63.6	50-150		9/20/17 3:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1 Sampled: 9/8/2017 09:38

Sample ID: 17I0317-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2 Sampled: 9/8/2017 09:39

Sample ID: 17I0317-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.4	30-150		9/19/17 17:19
Decachlorobiphenyl [2]	91.6	30-150		9/19/17 17:19
Tetrachloro-m-xylene [1]	103	30-150		9/19/17 17:19
Tetrachloro-m-xylene [2]	104	30-150		9/19/17 17:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2 Sampled: 9/8/2017 09:39

Sample ID: 17I0317-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3 Sampled: 9/8/2017 09:40

Sample ID: 17I0317-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		9/19/17 17:37
Decachlorobiphenyl [2]	90.3	30-150		9/19/17 17:37
Tetrachloro-m-xylene [1]	97.8	30-150		9/19/17 17:37
Tetrachloro-m-xylene [2]	101	30-150		9/19/17 17:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3 Sampled: 9/8/2017 09:40

Sample ID: 17I0317-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1 Sampled: 9/8/2017 09:30

Sample ID: 17I0317-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 17:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		9/19/17 17:55
Decachlorobiphenyl [2]	101	30-150		9/19/17 17:55
Tetrachloro-m-xylene [1]	107	30-150		9/19/17 17:55
Tetrachloro-m-xylene [2]	110	30-150		9/19/17 17:55

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1 Sampled: 9/8/2017 09:30

Sample ID: 17I0317-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	83	14	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 1:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	67.9	50-150		9/19/17 1:51

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1 Sampled: 9/8/2017 09:30

Sample ID: 17I0317-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2 Sampled: 9/8/2017 09:31

Sample ID: 17I0317-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		9/19/17 18:12
Decachlorobiphenyl [2]	78.9	30-150		9/19/17 18:12
Tetrachloro-m-xylene [1]	85.5	30-150		9/19/17 18:12
Tetrachloro-m-xylene [2]	87.8	30-150		9/19/17 18:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2 Sampled: 9/8/2017 09:31

Sample ID: 17I0317-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3 Sampled: 9/8/2017 09:32

Sample ID: 17I0317-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		9/19/17 18:30
Decachlorobiphenyl [2]	94.9	30-150		9/19/17 18:30
Tetrachloro-m-xylene [1]	100	30-150		9/19/17 18:30
Tetrachloro-m-xylene [2]	104	30-150		9/19/17 18:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3 Sampled: 9/8/2017 09:32

Sample ID: 17I0317-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1 Sampled: 9/8/2017 10:23

Sample ID: 17I0317-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1260 [1]	0.18	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG
Aroclor-1268 [1]	0.15	0.091	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 18:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		9/19/17 18:47
Decachlorobiphenyl [2]	106	30-150		9/19/17 18:47
Tetrachloro-m-xylene [1]	104	30-150		9/19/17 18:47
Tetrachloro-m-xylene [2]	103	30-150		9/19/17 18:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1 Sampled: 9/8/2017 10:23

Sample ID: 17I0317-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2 Sampled: 9/8/2017 10:24

Sample ID: 17I0317-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		9/19/17 19:05
Decachlorobiphenyl [2]	91.4	30-150		9/19/17 19:05
Tetrachloro-m-xylene [1]	99.7	30-150		9/19/17 19:05
Tetrachloro-m-xylene [2]	98.7	30-150		9/19/17 19:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2 Sampled: 9/8/2017 10:24

Sample ID: 17I0317-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	56.4	50-150		9/20/17 3:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2 Sampled: 9/8/2017 10:24

Sample ID: 17I0317-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3 Sampled: 9/8/2017 10:25

Sample ID: 17I0317-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.0	30-150		9/19/17 19:23
Decachlorobiphenyl [2]	124	30-150		9/19/17 19:23
Tetrachloro-m-xylene [1]	84.3	30-150		9/19/17 19:23
Tetrachloro-m-xylene [2]	89.1	30-150		9/19/17 19:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3 Sampled: 9/8/2017 10:25

Sample ID: 17I0317-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4 Sampled: 9/8/2017 10:26

Sample ID: 17I0317-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.1	30-150		9/19/17 19:40
Decachlorobiphenyl [2]	107	30-150		9/19/17 19:40
Tetrachloro-m-xylene [1]	87.5	30-150		9/19/17 19:40
Tetrachloro-m-xylene [2]	90.4	30-150		9/19/17 19:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4 Sampled: 9/8/2017 10:26

Sample ID: 17I0317-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1 Sampled: 9/8/2017 10:20

Sample ID: 17I0317-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1254 [1]	0.14	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 19:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		9/19/17 19:58
Decachlorobiphenyl [2]	88.7	30-150		9/19/17 19:58
Tetrachloro-m-xylene [1]	91.8	30-150		9/19/17 19:58
Tetrachloro-m-xylene [2]	95.8	30-150		9/19/17 19:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1 Sampled: 9/8/2017 10:20

Sample ID: 17I0317-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2 Sampled: 9/8/2017 10:21

Sample ID: 17I0317-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG
Aroclor-1268 [1]	0.13	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		9/19/17 21:04
Decachlorobiphenyl [2]	94.6	30-150		9/19/17 21:04
Tetrachloro-m-xylene [1]	95.9	30-150		9/19/17 21:04
Tetrachloro-m-xylene [2]	97.6	30-150		9/19/17 21:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2 Sampled: 9/8/2017 10:21

Sample ID: 17I0317-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	460	57	mg/Kg dry	5	MS-09	CTDEP ETPH	9/15/17	9/20/17 3:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.2	50-150		9/20/17 3:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2 Sampled: 9/8/2017 10:21

Sample ID: 17I0317-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3 Sampled: 9/8/2017 10:22

Sample ID: 17I0317-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		9/19/17 21:22
Decachlorobiphenyl [2]	102	30-150		9/19/17 21:22
Tetrachloro-m-xylene [1]	92.2	30-150		9/19/17 21:22
Tetrachloro-m-xylene [2]	96.1	30-150		9/19/17 21:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3 Sampled: 9/8/2017 10:22

Sample ID: 17I0317-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4 Sampled: 9/8/2017 10:23

Sample ID: 17I0317-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 21:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/19/17 21:40
Decachlorobiphenyl [2]	95.8	30-150		9/19/17 21:40
Tetrachloro-m-xylene [1]	96.2	30-150		9/19/17 21:40
Tetrachloro-m-xylene [2]	101	30-150		9/19/17 21:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4 Sampled: 9/8/2017 10:23

Sample ID: 17I0317-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1 Sampled: 9/8/2017 10:40

Sample ID: 17I0317-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1254 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1260 [1]	0.78	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG
Aroclor-1268 [1]	2.7	0.43	mg/Kg dry	20		SW-846 8082A	9/15/17	9/20/17 8:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	148	30-150		9/20/17 8:58
Decachlorobiphenyl [2]	125	30-150		9/20/17 8:58
Tetrachloro-m-xylene [1]	115	30-150		9/20/17 8:58
Tetrachloro-m-xylene [2]	110	30-150		9/20/17 8:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1 Sampled: 9/8/2017 10:40

Sample ID: 17I0317-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2 Sampled: 9/8/2017 10:41

Sample ID: 17I0317-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		9/19/17 22:15
Decachlorobiphenyl [2]	100	30-150		9/19/17 22:15
Tetrachloro-m-xylene [1]	96.8	30-150		9/19/17 22:15
Tetrachloro-m-xylene [2]	101	30-150		9/19/17 22:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2 Sampled: 9/8/2017 10:41

Sample ID: 17I0317-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	56	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.4	50-150		9/20/17 4:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2 Sampled: 9/8/2017 10:41

Sample ID: 17I0317-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3 Sampled: 9/8/2017 10:42

Sample ID: 17I0317-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.5	30-150		9/19/17 22:33
Decachlorobiphenyl [2]	95.9	30-150		9/19/17 22:33
Tetrachloro-m-xylene [1]	97.8	30-150		9/19/17 22:33
Tetrachloro-m-xylene [2]	103	30-150		9/19/17 22:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3 Sampled: 9/8/2017 10:42

Sample ID: 17I0317-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4 Sampled: 9/8/2017 10:43

Sample ID: 17I0317-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG
Aroclor-1268 [1]	0.13	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 22:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		9/19/17 22:51
Decachlorobiphenyl [2]	96.6	30-150		9/19/17 22:51
Tetrachloro-m-xylene [1]	84.6	30-150		9/19/17 22:51
Tetrachloro-m-xylene [2]	90.9	30-150		9/19/17 22:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4 Sampled: 9/8/2017 10:43

Sample ID: 17I0317-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1 Sampled: 9/8/2017 10:45

Sample ID: 17I0317-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1260 [1]	0.14	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG
Aroclor-1268 [1]	0.16	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.6	30-150		9/19/17 23:08
Decachlorobiphenyl [2]	97.1	30-150		9/19/17 23:08
Tetrachloro-m-xylene [1]	96.7	30-150		9/19/17 23:08
Tetrachloro-m-xylene [2]	102	30-150		9/19/17 23:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1 Sampled: 9/8/2017 10:45

Sample ID: 17I0317-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2 Sampled: 9/8/2017 10:46

Sample ID: 17I0317-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1260 [2]	0.14	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG
Aroclor-1268 [1]	0.13	0.088	mg/Kg dry	4		SW-846 8082A	9/15/17	9/19/17 23:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.7	30-150		9/19/17 23:26
Decachlorobiphenyl [2]	96.4	30-150		9/19/17 23:26
Tetrachloro-m-xylene [1]	99.3	30-150		9/19/17 23:26
Tetrachloro-m-xylene [2]	103	30-150		9/19/17 23:26

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2 Sampled: 9/8/2017 10:46

Sample ID: 17I0317-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	57	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 4:22	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	70.1	50-150		9/20/17 4:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2 Sampled: 9/8/2017 10:46

Sample ID: 17I0317-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186332	30.1	1.00	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186332	30.1	1.00	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186332	30.0	1.00	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186332	30.0	1.00	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186332	30.0	1.00	09/15/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186207	09/14/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186207	09/14/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186207	09/14/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186207	09/14/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186207	09/14/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186207	09/14/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186207	09/14/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186207	09/14/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186207	09/14/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186207	09/14/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186207	09/14/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186207	09/14/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186207	09/14/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186207	09/14/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186207	09/14/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186207	09/14/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186207	09/14/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186207	09/14/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186207	09/14/17
17I0317-20 [WS-AOC-6-SO-5-2]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-01 [WS-AOC-15-SO-35-1]	B186360	10.8	10.0	09/15/17
17I0317-02 [WS-AOC-15-SO-35-2]	B186360	10.0	10.0	09/15/17
17I0317-03 [WS-AOC-15-SO-35-3]	B186360	10.5	10.0	09/15/17
17I0317-04 [WS-AOC-15-SO-32-1]	B186360	10.8	10.0	09/15/17
17I0317-05 [WS-AOC-15-SO-32-2]	B186360	10.4	10.0	09/15/17
17I0317-06 [WS-AOC-15-SO-32-3]	B186360	10.6	10.0	09/15/17
17I0317-07 [WS-AOC-6-SO-11-1]	B186360	10.2	10.0	09/15/17
17I0317-08 [WS-AOC-6-SO-11-2]	B186360	10.0	10.0	09/15/17
17I0317-09 [WS-AOC-6-SO-11-3]	B186360	10.1	10.0	09/15/17
17I0317-10 [WS-AOC-6-SO-11-4]	B186360	10.2	10.0	09/15/17
17I0317-11 [WS-AOC-6-SO-6-1]	B186360	10.5	10.0	09/15/17
17I0317-12 [WS-AOC-6-SO-6-2]	B186360	10.5	10.0	09/15/17
17I0317-13 [WS-AOC-6-SO-6-3]	B186360	10.5	10.0	09/15/17
17I0317-14 [WS-AOC-6-SO-6-4]	B186360	10.3	10.0	09/15/17
17I0317-15 [WS-AOC-6-SO-12-1]	B186360	10.6	10.0	09/15/17
17I0317-16 [WS-AOC-6-SO-12-2]	B186360	10.2	10.0	09/15/17
17I0317-17 [WS-AOC-6-SO-12-3]	B186360	10.7	10.0	09/15/17
17I0317-18 [WS-AOC-6-SO-12-4]	B186360	10.2	10.0	09/15/17
17I0317-19 [WS-AOC-6-SO-5-1]	B186360	10.0	10.0	09/15/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0317-20 [WS-AOC-6-SO-5-2]	B186360	10.4	10.0	09/15/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186360 - SW-846 3540C										
Blank (B186360-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
LCS (B186360-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg wet	0.200		105	30-150			
LCS Dup (B186360-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	7.36	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	7.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	8.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.1	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186360 - SW-846 3540C										
Matrix Spike (B186360-MS1)		**Source: 17I0317-08**		Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.24	0.087	mg/Kg dry	0.219	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.087	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1260	0.19	0.087	mg/Kg dry	0.219	ND	84.6	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.219	ND	82.7	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.219		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg dry	0.219		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg dry	0.219		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg dry	0.219		101	30-150			
Matrix Spike (B186360-MS2)		**Source: 17I0317-09**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.20	0.088	mg/Kg dry	0.219	ND	90.3	40-140			
Aroclor-1016 [2C]	0.21	0.088	mg/Kg dry	0.219	ND	95.0	40-140			
Aroclor-1260	0.14	0.088	mg/Kg dry	0.219	ND	65.9	40-140			
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.219	ND	66.8	40-140			
Surrogate: Decachlorobiphenyl	*0.170*		mg/Kg dry	0.219		77.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.286*		mg/Kg dry	0.219		130	30-150			
Surrogate: Tetrachloro-m-xylene	*0.152*		mg/Kg dry	0.219		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg dry	0.219		76.2	30-150			
Matrix Spike (B186360-MS3)		**Source: 17I0317-12**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.26	0.088	mg/Kg dry	0.220	ND	116	40-140			
Aroclor-1016 [2C]	0.25	0.088	mg/Kg dry	0.220	ND	115	40-140			
Aroclor-1260	0.32	0.088	mg/Kg dry	0.220	0.12	91.4	40-140			
Aroclor-1260 [2C]	0.33	0.088	mg/Kg dry	0.220	0.10	104	40-140			
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg dry	0.220		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg dry	0.220		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.220*		mg/Kg dry	0.220		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.226*		mg/Kg dry	0.220		103	30-150			
Matrix Spike (B186360-MS4)		**Source: 17I0317-16**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.28	0.089	mg/Kg dry	0.223	ND	124	40-140			
Aroclor-1016 [2C]	0.29	0.089	mg/Kg dry	0.223	ND	128	40-140			
Aroclor-1260	0.20	0.089	mg/Kg dry	0.223	ND	89.2	40-140			
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.223	ND	86.3	40-140			
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg dry	0.223		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg dry	0.223		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg dry	0.223		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.223		100	30-150			
Matrix Spike Dup (B186360-MSD1)		**Source: 17I0317-08**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.24	0.092	mg/Kg dry	0.231	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.092	mg/Kg dry	0.231	ND	96.3	40-140	5.77	50	
Aroclor-1260	0.18	0.092	mg/Kg dry	0.231	ND	79.6	40-140	0.637	50	
Aroclor-1260 [2C]	0.18	0.092	mg/Kg dry	0.231	ND	78.0	40-140	0.341	50	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg dry	0.231		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg dry	0.231		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.213*		mg/Kg dry	0.231		92.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186360 - SW-846 3540C										
Matrix Spike Dup (B186360-MSD2)		**Source: 17I0317-09**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.22	0.088	mg/Kg dry	0.221	ND	97.2	40-140	8.36	50	
Aroclor-1016 [2C]	0.20	0.088	mg/Kg dry	0.221	ND	90.8	40-140	3.56	50	
Aroclor-1260	0.15	0.088	mg/Kg dry	0.221	ND	66.6	40-140	2.05	50	
Aroclor-1260 [2C]	0.15	0.088	mg/Kg dry	0.221	ND	67.0	40-140	1.36	50	
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg dry	0.221		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.258*		mg/Kg dry	0.221		116	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg dry	0.221		73.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg dry	0.221		79.3	30-150			
Matrix Spike Dup (B186360-MSD3)		**Source: 17I0317-12**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.223	ND	119	40-140	3.42	50	
Aroclor-1016 [2C]	0.26	0.089	mg/Kg dry	0.223	ND	116	40-140	1.70	50	
Aroclor-1260	0.33	0.089	mg/Kg dry	0.223	0.12	94.1	40-140	2.44	50	
Aroclor-1260 [2C]	0.33	0.089	mg/Kg dry	0.223	0.10	104	40-140	0.482	50	
Surrogate: Decachlorobiphenyl	*0.217*		mg/Kg dry	0.223		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.223		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.227*		mg/Kg dry	0.223		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.235*		mg/Kg dry	0.223		106	30-150			
Matrix Spike Dup (B186360-MSD4)		**Source: 17I0317-16**		Prepared: 09/15/17 Analyzed: 09/20/17						
Aroclor-1016	0.27	0.089	mg/Kg dry	0.222	ND	120	40-140	4.36	50	
Aroclor-1016 [2C]	0.25	0.089	mg/Kg dry	0.222	ND	114	40-140	12.0	50	
Aroclor-1260	0.20	0.089	mg/Kg dry	0.222	ND	87.9	40-140	1.97	50	
Aroclor-1260 [2C]	0.19	0.089	mg/Kg dry	0.222	ND	87.6	40-140	0.912	50	
Surrogate: Decachlorobiphenyl	*0.215*		mg/Kg dry	0.222		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.232*		mg/Kg dry	0.222		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.213*		mg/Kg dry	0.222		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.226*		mg/Kg dry	0.222		102	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546											
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1		50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17							
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7		60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106		50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17							
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5		60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102		50-150			
Matrix Spike (B186332-MS1)	**Source: 17I0317-12**			Prepared: 09/15/17 Analyzed: 09/20/17							
CT ETPH	332	57	mg/Kg dry	37.7	458	**-333**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.04*		mg/Kg dry	3.77		54.2		50-150			
Matrix Spike Dup (B186332-MSD1)	**Source: 17I0317-12**			Prepared: 09/15/17 Analyzed: 09/20/17							
CT ETPH	296	57	mg/Kg dry	37.8	458	**-428**	*	50-150	11.5	30	MS-09
Surrogate: o-Terphenyl	*1.69*		mg/Kg dry	3.78		**44.6**	*	50-150			S-23

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP1)		**Source: 17I0317-08**		Prepared: 09/14/17	Analyzed: 09/15/17					
% Solids	86.6		% Wt		86.1			0.579	20	
Duplicate (B186207-DUP2)		**Source: 17I0317-09**		Prepared: 09/14/17	Analyzed: 09/15/17					
% Solids	87.4		% Wt		88.8			1.59	20	
Duplicate (B186207-DUP3)		**Source: 17I0317-12**		Prepared: 09/14/17	Analyzed: 09/15/17					
% Solids	88.9		% Wt		88.1			0.904	20	
Duplicate (B186207-DUP4)		**Source: 17I0317-16**		Prepared: 09/14/17	Analyzed: 09/15/17					
% Solids	87.4		% Wt		88.6			1.36	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-11-1

Lab Sample ID: 17I0317-07

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.14	25.0
Aroclor-1268	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-6-1

Lab Sample ID: 17I0317-11

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-6-2

Lab Sample ID: 17I0317-12

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.10	18.2
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-12-1

Lab Sample ID: 17I0317-15

Date(s) Analyzed: 09/20/2017 09/20/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	0.68	13.7
Aroclor-1268	1	0.000	-0.030	0.030	2.7	
	2	0.000	-0.030	0.030	2.4	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-12-4

Lab Sample ID: 17I0317-18

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-1

Lab Sample ID: 17I0317-19

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-5-2

Lab Sample ID: 17I0317-20

Date(s) Analyzed: 09/19/2017 09/19/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0
Aroclor-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0317

con-test ANALYTICAL LABORATORY

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH											# of Containers / [2] Preservation Code / [3] Container Code
1	WS-AOC-15-SO-35-1	9/8/17	0939		X	S	U	X	X											
2	WS-AOC-15-SO-35-2	9/8/17	0939		X	S	U	X												
3	WS-AOC-15-SO-35-3	9/8/17	0940		X	S	U	X												
4	WS-AOC-15-SO-32-1	9/8/17	0930		X	S	U	X	X											
5	WS-AOC-15-SO-32-2	9/8/17	0931		X	S	U	X												
6	WS-AOC-15-SO-32-3	9/8/17	0932		X	S	U	X												
7	WS-AOC-6-SO-11-1	9/8/17	1023		X	S	U	X												
8	WS-AOC-6-SO-11-2	9/8/17	1024		X	S	U	X	X											
9	WS-AOC-6-SO-11-3	9/8/17	1025		X	S	U	X												
10	WS-AOC-6-SO-11-4	9/8/17	1026		X	S	U	X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please do MS/MSD for WS-AOC-6-SO-11-2 and WS-AOC-6-SO-11-3 for PCBs.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:45
Relinquished by: (signature)	Date/Time: 9/8/17 17:06
Received by: (signature)	Date/Time: 9/8/17 1706

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0317

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	ETPH									# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-6-SO-6-1	9/8/17	1020		X	S	U	X												
12	WS-AOC-6-SO-6-2	↓	1021		↓	↓	↓	X	X											
13	WS-AOC-6-SO-6-3		1022					X												
14	WS-AOC-6-SO-6-4		1023					X												
15	WS-AOC-6-SO-12-1		1040					X												
16	WS-AOC-6-SO-12-2		1041					X	X											
17	WS-AOC-6-SO-12-3		1042					X												
18	WS-AOC-6-SO-12-4		1043					X												
19	WS-AOC-6-SO-5-1		1045					X												
20	WS-AOC-6-SO-5-2	↓	1046		↓	↓	↓	X	X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
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_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
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S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-AOC-6-SO-6-2 for PCBs & ETPH. Please do MS/MSD for WS-AOC-6-SO-12-2 for only PCBs

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	9/8/17 1520
Received by: (signature) [signature]	Date/Time: 9/8/17 1520
Relinquished by: (signature) [signature]	Date/Time: 9/8/17 1540
Received by: (signature) [signature] 9/8/17	Date/Time: 15.45
Relinquished by: (signature) [signature] 9/8/17	Date/Time: 17:06
Received by: (signature) [signature] 9/8/17	Date/Time: 1706

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918033.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples
17I0243-10@100X
17I0325-09@25X
17I0243-13@50X
17I0243-01@100X
17I0243-04@100X
17I0241-01
17I0241-19
17I0242-12
17I0244-20
17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples
17I0247-01
17I0247-02
17I0374-01
17I0240-10
17I0374-03
17I0234-03@5X
17I0234-08@5X

17

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0918085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
17I0317-12
17I0317-20
17I0320-04
17I0320-08
17I0320-16

D:\HPCHEM\1\DATA\A091917\A0919034.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919034.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	474085	516534	-8
c - 10	1.64	481672	516534	-7
c - 12	2.37	497126	516534	-4
c - 14	3.04	508834	516534	-1
c - 16	3.65	522848	516534	1
c - 18	4.29	520984	516534	1
o-Terphenyl	4.57	580972	516534	
c - 20	4.89	530541	516534	3
c - 22	5.39	541966	516534	5
c - 24	5.83	509014	516534	-1
c - 26	6.23	539302	516534	4
c - 28	6.59	535419	516534	4
c - 30	6.92	532726	516534	3
c - 32	7.23	517877	516534	0
c - 34	7.53	518142	516534	0
c - 36	7.87	517468	516534	0

* One compound allowed %D <= 50%

Samples
17I0380-07
17I0380-08
17I0408-01
17I0408-02
17I0408-03
17I0408-04
17I0408-05
17I0408-06
17I0408-07
17I0408-08
17I0539-06
17I0539-07

D:\HPCHEM\1\DATA\A091917\A0919080.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919080.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	528856	581017	-9
c - 10	1.64	535746	581017	-8
c - 12	2.37	551280	581017	-5
c - 14	3.04	564056	581017	-3
c - 16	3.65	580870	581017	0
c - 18	4.28	579922	581017	0
o-Terphenyl	4.56	651948	581017	
c - 20	4.89	593238	581017	2
c - 22	5.39	609366	581017	5
c - 24	5.83	575514	581017	-1
c - 26	6.23	613107	581017	6
c - 28	6.59	611459	581017	5
c - 30	6.92	608124	581017	5
c - 32	7.23	590941	581017	2
c - 34	7.53	588042	581017	1
c - 36	7.87	584730	581017	1

* One compound allowed %D <= 50%

Samples
17I0719-04
17I0719-07
17I0719-04
17I0719-08@20X
17I0719-09@10X
17I0241-16@5X
17I0244-11@10X
17I0317-01@5X
17I0317-08@5X
17I0317-12@5X
17I0317-16@5X
17I0317-20@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0317

Laboratory Sample ID(s):

17I0317-01 thru 17I0317-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/20/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0321

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0321

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-109-3	17I0321-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-1	17I0321-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-108-2	17I0321-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-3	17I0321-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-1	17I0321-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-106-2	17I0321-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-3	17I0321-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP52	17I0321-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP53	17I0321-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP54	17I0321-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP55	17I0321-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP56	17I0321-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP57	17I0321-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP58	17I0321-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-DUP59	17I0321-15	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0321-02[WS-AOC-12W-SO-108-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/20/17 18:54
Decachlorobiphenyl [2]	89.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [1]	91.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [2]	94.3	30-150		9/20/17 18:54

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Anthracene	0.37	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)anthracene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)pyrene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(b)fluoranthene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(g,h,i)perylene	0.63	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(k)fluoranthene	0.47	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Chrysene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluoranthene	3.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Phenanthrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.4	30-130		9/18/17 15:49
2-Fluorobiphenyl	74.2	30-130		9/18/17 15:49
p-Terphenyl-d14	79.3	30-130		9/18/17 15:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/20/17 19:12
Decachlorobiphenyl [2]	78.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [2]	93.7	30-150		9/20/17 19:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	280	mg/Kg dry	20		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 3:29

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.3	30-150		9/20/17 19:30
Decachlorobiphenyl [2]	69.6	30-150		9/20/17 19:30
Tetrachloro-m-xylene [1]	74.8	30-150		9/20/17 19:30
Tetrachloro-m-xylene [2]	79.2	30-150		9/20/17 19:30

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		9/20/17 19:48
Decachlorobiphenyl [2]	91.4	30-150		9/20/17 19:48
Tetrachloro-m-xylene [1]	94.5	30-150		9/20/17 19:48
Tetrachloro-m-xylene [2]	95.9	30-150		9/20/17 19:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)anthracene	0.95	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)pyrene	0.98	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(b)fluoranthene	1.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(g,h,i)perylene	0.57	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(k)fluoranthene	0.44	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Chrysene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluoranthene	2.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Indeno(1,2,3-cd)pyrene	0.63	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Naphthalene	0.32	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Phenanthrene	0.52	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Pyrene	2.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.7	30-130		9/18/17 16:14
2-Fluorobiphenyl	62.6	30-130		9/18/17 16:14
p-Terphenyl-d14	64.2	30-130		9/18/17 16:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/20/17 20:06
Decachlorobiphenyl [2]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [1]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [2]	91.1	30-150		9/20/17 20:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.4	50-150		9/19/17 18:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.7	30-150		9/20/17 20:24
Decachlorobiphenyl [2]	90.0	30-150		9/20/17 20:24
Tetrachloro-m-xylene [1]	87.2	30-150		9/20/17 20:24
Tetrachloro-m-xylene [2]	91.4	30-150		9/20/17 20:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		9/20/17 20:41
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [1]	95.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [2]	97.2	30-150		9/20/17 20:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		9/20/17 20:59
Decachlorobiphenyl [2]	89.4	30-150		9/20/17 20:59
Tetrachloro-m-xylene [1]	91.8	30-150		9/20/17 20:59
Tetrachloro-m-xylene [2]	94.7	30-150		9/20/17 20:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	80	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 19:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.8	50-150		9/19/17 19:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		9/20/17 22:58
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 22:58
Tetrachloro-m-xylene [1]	97.4	30-150		9/20/17 22:58
Tetrachloro-m-xylene [2]	100	30-150		9/20/17 22:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		9/20/17 23:15
Decachlorobiphenyl [2]	90.8	30-150		9/20/17 23:15
Tetrachloro-m-xylene [1]	90.1	30-150		9/20/17 23:15
Tetrachloro-m-xylene [2]	92.8	30-150		9/20/17 23:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/20/17 23:33
Decachlorobiphenyl [2]	86.8	30-150		9/20/17 23:33
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 23:33
Tetrachloro-m-xylene [2]	93.0	30-150		9/20/17 23:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/20/17 23:50
Decachlorobiphenyl [2]	112	30-150		9/20/17 23:50
Tetrachloro-m-xylene [1]	77.5	30-150		9/20/17 23:50
Tetrachloro-m-xylene [2]	81.3	30-150		9/20/17 23:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/21/17 0:08
Decachlorobiphenyl [2]	92.0	30-150		9/21/17 0:08
Tetrachloro-m-xylene [1]	96.8	30-150		9/21/17 0:08
Tetrachloro-m-xylene [2]	100	30-150		9/21/17 0:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		9/21/17 0:26
Decachlorobiphenyl [2]	89.5	30-150		9/21/17 0:26
Tetrachloro-m-xylene [1]	95.1	30-150		9/21/17 0:26
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 0:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 0:43
Decachlorobiphenyl [2]	95.2	30-150		9/21/17 0:43
Tetrachloro-m-xylene [1]	92.1	30-150		9/21/17 0:43
Tetrachloro-m-xylene [2]	93.2	30-150		9/21/17 0:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186332	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186332	30.1	1.00	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186332	30.1	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186207	09/14/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186207	09/14/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186207	09/14/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186207	09/14/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186207	09/14/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186207	09/14/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186207	09/14/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186207	09/14/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186207	09/14/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186207	09/14/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186207	09/14/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186207	09/14/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186207	09/14/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186207	09/14/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186207	09/14/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186353	10.4	10.0	09/15/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186353	10.2	10.0	09/15/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186353	10.5	10.0	09/15/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186353	10.6	10.0	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186353	10.6	10.0	09/15/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186353	10.4	10.0	09/15/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186353	10.4	10.0	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186353	10.5	10.0	09/15/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186353	10.5	10.0	09/15/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186353	10.6	10.0	09/15/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186353	10.4	10.0	09/15/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186353	10.8	10.0	09/15/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186353	10.6	10.0	09/15/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186353	10.5	10.0	09/15/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186353	10.3	10.0	09/15/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186330	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186330	30.1	1.00	09/15/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186353 - SW-846 3540C										
Blank (B186353-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B186353-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B186353-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186207 - % Solids										
Duplicate (B186207-DUP7)		**Source: 17I0321-01**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	55.2		% Wt		58.0			4.95	20	
Duplicate (B186207-DUP8)		**Source: 17I0321-02**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	67.5		% Wt		72.1			6.59	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	RCB, Soxhlet	EPH	PAHs									# of Containers / Preservation Code / Container Code
								1											# of Containers
								H											2 Preservation Code
								A											3 Container Code
1	WS-AOC-12W-SO-101-3	9/8/17	1300		X	S	U	X											
	~~WS-AOC-12W-SO-102~~							X											
2	WS-AOC-12W-SO-103-1		1327					X	X	X									
3	WS-AOC-12W-SO-103-2		1328					X											
4	WS-AOC-12W-SO-103-3		1329					X											
5	WS-AOC-12W-SO-1001		1423					X	X	X									
6	WS-AOC-12W-SO-1002		1424					X											
7	WS-AOC-12W-SO-1003		1425					X											
8	WS-AOC-15-SO-DUP52		—					X	X										
9	WS-AOC-15-SO-DUP53		—					X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15.45
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs, Surrogate										
10	WS-ACC-6-30-DUP54	9/8/17	—		X	S	U	X										
11	WS-ACC-6-30-DUP55	↓	—		↓	↓	↓	X										
12	WS-ACC-6-30-DUP56	↓	—		↓	↓	↓	X										
13	WS-ACC-6-30-DUP57	↓	—		↓	↓	↓	X										
14	WS-ACC-6-30-DUP58	↓	—		↓	↓	↓	X										
15	WS-ACC-12W-30-DUP59	↓	—		↓	↓	↓	X										

1																		# of Containers
H																		[2] Preservation Code
A																		[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:48
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/8/17 Time 1708

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 5.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0321

Laboratory Sample ID(s):

17I0321-01 thru 17I0321-15

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/21/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-1	17I0378-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-2	17I0378-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-3	17I0378-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-1	17I0378-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-2	17I0378-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-3	17I0378-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-4	17I0378-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-1	17I0378-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-2	17I0378-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-3	17I0378-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-1	17I0378-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-2	17I0378-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-3	17I0378-13	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-105-1	17I0378-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-2	17I0378-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-3	17I0378-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-1	17I0378-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-2	17I0378-18	Soil		SM 2540G	
				SW-846 8082A	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	17I0378-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-1	17I0378-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0378-01[WS-AOC-15-SO-20-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/21/17 17:45
Decachlorobiphenyl [2]	84.7	30-150		9/21/17 17:45
Tetrachloro-m-xylene [1]	86.2	30-150		9/21/17 17:45
Tetrachloro-m-xylene [2]	85.6	30-150		9/21/17 17:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 18:02
Decachlorobiphenyl [2]	98.5	30-150		9/21/17 18:02
Tetrachloro-m-xylene [1]	87.0	30-150		9/21/17 18:02
Tetrachloro-m-xylene [2]	88.7	30-150		9/21/17 18:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/21/17 18:20
Decachlorobiphenyl [2]	90.2	30-150		9/21/17 18:20
Tetrachloro-m-xylene [1]	82.1	30-150		9/21/17 18:20
Tetrachloro-m-xylene [2]	79.8	30-150		9/21/17 18:20

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 7:56
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 7:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 8:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 8:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/21/17 19:12
Decachlorobiphenyl [2]	101	30-150		9/21/17 19:12
Tetrachloro-m-xylene [1]	91.9	30-150		9/21/17 19:12
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/21/17 19:30
Decachlorobiphenyl [2]	107	30-150		9/21/17 19:30
Tetrachloro-m-xylene [1]	91.4	30-150		9/21/17 19:30
Tetrachloro-m-xylene [2]	91.3	30-150		9/21/17 19:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/21/17 19:47
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 19:47
Tetrachloro-m-xylene [1]	91.0	30-150		9/21/17 19:47
Tetrachloro-m-xylene [2]	92.9	30-150		9/21/17 19:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/21/17 20:05
Decachlorobiphenyl [2]	80.5	30-150		9/21/17 20:05
Tetrachloro-m-xylene [1]	72.3	30-150		9/21/17 20:05
Tetrachloro-m-xylene [2]	72.9	30-150		9/21/17 20:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/21/17 20:22
Decachlorobiphenyl [2]	81.2	30-150		9/21/17 20:22
Tetrachloro-m-xylene [1]	77.7	30-150		9/21/17 20:22
Tetrachloro-m-xylene [2]	80.2	30-150		9/21/17 20:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/21/17 20:39
Decachlorobiphenyl [2]	84.5	30-150		9/21/17 20:39
Tetrachloro-m-xylene [1]	87.9	30-150		9/21/17 20:39
Tetrachloro-m-xylene [2]	92.0	30-150		9/21/17 20:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/21/17 20:57
Decachlorobiphenyl [2]	86.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [2]	97.9	30-150		9/21/17 20:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.2	50-150		9/20/17 1:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 23:04
Decachlorobiphenyl [2]	97.1	30-150		9/21/17 23:04
Tetrachloro-m-xylene [1]	93.3	30-150		9/21/17 23:04
Tetrachloro-m-xylene [2]	96.5	30-150		9/21/17 23:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		9/21/17 23:21
Decachlorobiphenyl [2]	94.2	30-150		9/21/17 23:21
Tetrachloro-m-xylene [1]	90.4	30-150		9/21/17 23:21
Tetrachloro-m-xylene [2]	89.7	30-150		9/21/17 23:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		9/20/17 2:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/21/17 23:38
Decachlorobiphenyl [2]	83.7	30-150		9/21/17 23:38
Tetrachloro-m-xylene [1]	84.8	30-150		9/21/17 23:38
Tetrachloro-m-xylene [2]	90.9	30-150		9/21/17 23:38

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.8	30-150		9/21/17 23:56
Decachlorobiphenyl [2]	50.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [1]	45.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [2]	44.6	30-150		9/21/17 23:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/22/17 0:13
Decachlorobiphenyl [2]	78.4	30-150		9/22/17 0:13
Tetrachloro-m-xylene [1]	80.6	30-150		9/22/17 0:13
Tetrachloro-m-xylene [2]	85.8	30-150		9/22/17 0:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/22/17 0:31
Decachlorobiphenyl [2]	85.5	30-150		9/22/17 0:31
Tetrachloro-m-xylene [1]	82.3	30-150		9/22/17 0:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/22/17 0:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/22/17 0:48
Decachlorobiphenyl [2]	89.4	30-150		9/22/17 0:48
Tetrachloro-m-xylene [1]	88.2	30-150		9/22/17 0:48
Tetrachloro-m-xylene [2]	92.8	30-150		9/22/17 0:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.8	50-150		9/20/17 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/22/17 1:06
Decachlorobiphenyl [2]	87.4	30-150		9/22/17 1:06
Tetrachloro-m-xylene [1]	86.3	30-150		9/22/17 1:06
Tetrachloro-m-xylene [2]	91.6	30-150		9/22/17 1:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	79.8	50-150		9/20/17 7:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Blank (B186484-BLK1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
LCS (B186484-BS1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B186484-BSD1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.212		84.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike Dup (B186484-MSD2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.205		101	30-150			
Matrix Spike Dup (B186484-MSD3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.210		96.2	30-150			
Matrix Spike Dup (B186484-MSD4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.208		93.3	30-150			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546											
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4		50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5		60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6		50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5		60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8		50-150			
Matrix Spike (B186472-MS1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	**-48.7**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.44		78.4		50-150			
Matrix Spike Dup (B186472-MSD1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	**-70.3**	*	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	*2.36*		mg/Kg dry	3.44		68.7		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)		**Source: 17I0378-09**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)		**Source: 17I0378-12**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)		**Source: 17I0378-15**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)		**Source: 17I0378-18**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.0		% Wt		96.3			0.312	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 17I0378-05

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-2

Lab Sample ID: 17I0378-09

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-3

Lab Sample ID: 17I0378-10

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0378

con-test ANALYTICAL LABORATORY

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-POC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-POC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-POC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-POC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-POC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-POC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-POC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-POC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-POC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-POC-12W-SO-112-3	9/11/17	1217		X	S	U	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-POC-12W-SO-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 1630
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0378

con-test ANALYTICAL LABORATORY

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

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7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
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Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	Arsenic										# of Containers	[2] Preservation Code	[3] Container Code
								1												1	I	A
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X														
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X													
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X												
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X													
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X														
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X														
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X														
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X														
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X													
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	X	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for only PCBs, and WS-AOC-12W-SO-110-2 for PCBs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? ~~NA~~ T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/22/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 22, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-15-SO-20-1	17I0378-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-2	17I0378-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-3	17I0378-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-1	17I0378-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-2	17I0378-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-3	17I0378-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-4	17I0378-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-1	17I0378-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-2	17I0378-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-3	17I0378-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-1	17I0378-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-2	17I0378-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-3	17I0378-13	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-105-1	17I0378-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-2	17I0378-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-3	17I0378-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-1	17I0378-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-2	17I0378-18	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	17I0378-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-1	17I0378-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0378-01[WS-AOC-15-SO-20-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/21/17 17:45
Decachlorobiphenyl [2]	84.7	30-150		9/21/17 17:45
Tetrachloro-m-xylene [1]	86.2	30-150		9/21/17 17:45
Tetrachloro-m-xylene [2]	85.6	30-150		9/21/17 17:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 18:02
Decachlorobiphenyl [2]	98.5	30-150		9/21/17 18:02
Tetrachloro-m-xylene [1]	87.0	30-150		9/21/17 18:02
Tetrachloro-m-xylene [2]	88.7	30-150		9/21/17 18:02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/21/17 18:20
Decachlorobiphenyl [2]	90.2	30-150		9/21/17 18:20
Tetrachloro-m-xylene [1]	82.1	30-150		9/21/17 18:20
Tetrachloro-m-xylene [2]	79.8	30-150		9/21/17 18:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 7:56
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 7:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 8:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 8:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/21/17 19:12
Decachlorobiphenyl [2]	101	30-150		9/21/17 19:12
Tetrachloro-m-xylene [1]	91.9	30-150		9/21/17 19:12
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/21/17 19:30
Decachlorobiphenyl [2]	107	30-150		9/21/17 19:30
Tetrachloro-m-xylene [1]	91.4	30-150		9/21/17 19:30
Tetrachloro-m-xylene [2]	91.3	30-150		9/21/17 19:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/21/17 19:47
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 19:47
Tetrachloro-m-xylene [1]	91.0	30-150		9/21/17 19:47
Tetrachloro-m-xylene [2]	92.9	30-150		9/21/17 19:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/21/17 20:05
Decachlorobiphenyl [2]	80.5	30-150		9/21/17 20:05
Tetrachloro-m-xylene [1]	72.3	30-150		9/21/17 20:05
Tetrachloro-m-xylene [2]	72.9	30-150		9/21/17 20:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/21/17 20:22
Decachlorobiphenyl [2]	81.2	30-150		9/21/17 20:22
Tetrachloro-m-xylene [1]	77.7	30-150		9/21/17 20:22
Tetrachloro-m-xylene [2]	80.2	30-150		9/21/17 20:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/21/17 20:39
Decachlorobiphenyl [2]	84.5	30-150		9/21/17 20:39
Tetrachloro-m-xylene [1]	87.9	30-150		9/21/17 20:39
Tetrachloro-m-xylene [2]	92.0	30-150		9/21/17 20:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/21/17 20:57
Decachlorobiphenyl [2]	86.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [2]	97.9	30-150		9/21/17 20:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.2	50-150		9/20/17 1:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 23:04
Decachlorobiphenyl [2]	97.1	30-150		9/21/17 23:04
Tetrachloro-m-xylene [1]	93.3	30-150		9/21/17 23:04
Tetrachloro-m-xylene [2]	96.5	30-150		9/21/17 23:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		9/21/17 23:21
Decachlorobiphenyl [2]	94.2	30-150		9/21/17 23:21
Tetrachloro-m-xylene [1]	90.4	30-150		9/21/17 23:21
Tetrachloro-m-xylene [2]	89.7	30-150		9/21/17 23:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		9/20/17 2:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/21/17 23:38
Decachlorobiphenyl [2]	83.7	30-150		9/21/17 23:38
Tetrachloro-m-xylene [1]	84.8	30-150		9/21/17 23:38
Tetrachloro-m-xylene [2]	90.9	30-150		9/21/17 23:38

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.8	30-150		9/21/17 23:56
Decachlorobiphenyl [2]	50.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [1]	45.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [2]	44.6	30-150		9/21/17 23:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/22/17 0:13
Decachlorobiphenyl [2]	78.4	30-150		9/22/17 0:13
Tetrachloro-m-xylene [1]	80.6	30-150		9/22/17 0:13
Tetrachloro-m-xylene [2]	85.8	30-150		9/22/17 0:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/22/17 0:31
Decachlorobiphenyl [2]	85.5	30-150		9/22/17 0:31
Tetrachloro-m-xylene [1]	82.3	30-150		9/22/17 0:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/22/17 0:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/22/17 0:48
Decachlorobiphenyl [2]	89.4	30-150		9/22/17 0:48
Tetrachloro-m-xylene [1]	88.2	30-150		9/22/17 0:48
Tetrachloro-m-xylene [2]	92.8	30-150		9/22/17 0:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.8	50-150		9/20/17 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/22/17 1:06
Decachlorobiphenyl [2]	87.4	30-150		9/22/17 1:06
Tetrachloro-m-xylene [1]	86.3	30-150		9/22/17 1:06
Tetrachloro-m-xylene [2]	91.6	30-150		9/22/17 1:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	79.8	50-150		9/20/17 7:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Blank (B186484-BLK1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
LCS (B186484-BS1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B186484-BSD1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.212		84.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike Dup (B186484-MSD2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.205		101	30-150			
Matrix Spike Dup (B186484-MSD3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.210		96.2	30-150			
Matrix Spike Dup (B186484-MSD4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.208		93.3	30-150			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546											
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4		50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5		60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6		50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5		60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8		50-150			
Matrix Spike (B186472-MS1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	**-48.7**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.44		78.4		50-150			
Matrix Spike Dup (B186472-MSD1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	**-70.3**	*	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	*2.36*		mg/Kg dry	3.44		68.7		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)		**Source: 17I0378-09**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)		**Source: 17I0378-12**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)		**Source: 17I0378-15**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)		**Source: 17I0378-18**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.0		% Wt		96.3			0.312	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 17I0378-05

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-2

Lab Sample ID: 17I0378-09

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-3

Lab Sample ID: 17I0378-10

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-POC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-POC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-POC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-POC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-POC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-POC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-POC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-POC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-POC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-POC-12W-SO-112-3	9/11/17	1217		X	S	U	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-POC-12W-SO-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 1630
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	Arsenic										# of Containers	[2] Preservation Code	[3] Container Code
								1												1	I	A
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X														
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X													
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X												
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X													
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X														
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X														
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X														
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X														
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X													
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	X	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for only PCBs, and WS-AOC-12W-SO-110-2 for PCBs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? ~~NA~~ T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/22/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 19, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-27-1	17I0378-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-27-2	17I0378-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-27-3	17I0378-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-1	17I0378-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-2	17I0378-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-3	17I0378-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-4	17I0378-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-1	17I0378-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-2	17I0378-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-3	17I0378-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-1	17I0378-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-2	17I0378-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-3	17I0378-13	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-105-1	17I0378-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-2	17I0378-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-3	17I0378-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-1	17I0378-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-2	17I0378-18	Soil		SM 2540G	
				SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-12W-SO-110-3	17I0378-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-1	17I0378-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 10/19/2017 - 17I0378-01 through -03 IDs revised.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0378-01[WS-AOC15-SO-27-1]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/21/17 17:45
Decachlorobiphenyl [2]	84.7	30-150		9/21/17 17:45
Tetrachloro-m-xylene [1]	86.2	30-150		9/21/17 17:45
Tetrachloro-m-xylene [2]	85.6	30-150		9/21/17 17:45

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:48

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 18:02
Decachlorobiphenyl [2]	98.5	30-150		9/21/17 18:02
Tetrachloro-m-xylene [1]	87.0	30-150		9/21/17 18:02
Tetrachloro-m-xylene [2]	88.7	30-150		9/21/17 18:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/21/17 18:20
Decachlorobiphenyl [2]	90.2	30-150		9/21/17 18:20
Tetrachloro-m-xylene [1]	82.1	30-150		9/21/17 18:20
Tetrachloro-m-xylene [2]	79.8	30-150		9/21/17 18:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 7:56
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 7:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 8:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 8:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/21/17 19:12
Decachlorobiphenyl [2]	101	30-150		9/21/17 19:12
Tetrachloro-m-xylene [1]	91.9	30-150		9/21/17 19:12
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/21/17 19:30
Decachlorobiphenyl [2]	107	30-150		9/21/17 19:30
Tetrachloro-m-xylene [1]	91.4	30-150		9/21/17 19:30
Tetrachloro-m-xylene [2]	91.3	30-150		9/21/17 19:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/21/17 19:47
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 19:47
Tetrachloro-m-xylene [1]	91.0	30-150		9/21/17 19:47
Tetrachloro-m-xylene [2]	92.9	30-150		9/21/17 19:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/21/17 20:05
Decachlorobiphenyl [2]	80.5	30-150		9/21/17 20:05
Tetrachloro-m-xylene [1]	72.3	30-150		9/21/17 20:05
Tetrachloro-m-xylene [2]	72.9	30-150		9/21/17 20:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/21/17 20:22
Decachlorobiphenyl [2]	81.2	30-150		9/21/17 20:22
Tetrachloro-m-xylene [1]	77.7	30-150		9/21/17 20:22
Tetrachloro-m-xylene [2]	80.2	30-150		9/21/17 20:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/21/17 20:39
Decachlorobiphenyl [2]	84.5	30-150		9/21/17 20:39
Tetrachloro-m-xylene [1]	87.9	30-150		9/21/17 20:39
Tetrachloro-m-xylene [2]	92.0	30-150		9/21/17 20:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/21/17 20:57
Decachlorobiphenyl [2]	86.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [2]	97.9	30-150		9/21/17 20:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.2	50-150		9/20/17 1:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 23:04
Decachlorobiphenyl [2]	97.1	30-150		9/21/17 23:04
Tetrachloro-m-xylene [1]	93.3	30-150		9/21/17 23:04
Tetrachloro-m-xylene [2]	96.5	30-150		9/21/17 23:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		9/21/17 23:21
Decachlorobiphenyl [2]	94.2	30-150		9/21/17 23:21
Tetrachloro-m-xylene [1]	90.4	30-150		9/21/17 23:21
Tetrachloro-m-xylene [2]	89.7	30-150		9/21/17 23:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		9/20/17 2:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/21/17 23:38
Decachlorobiphenyl [2]	83.7	30-150		9/21/17 23:38
Tetrachloro-m-xylene [1]	84.8	30-150		9/21/17 23:38
Tetrachloro-m-xylene [2]	90.9	30-150		9/21/17 23:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.8	30-150		9/21/17 23:56
Decachlorobiphenyl [2]	50.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [1]	45.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [2]	44.6	30-150		9/21/17 23:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/22/17 0:13
Decachlorobiphenyl [2]	78.4	30-150		9/22/17 0:13
Tetrachloro-m-xylene [1]	80.6	30-150		9/22/17 0:13
Tetrachloro-m-xylene [2]	85.8	30-150		9/22/17 0:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/22/17 0:31
Decachlorobiphenyl [2]	85.5	30-150		9/22/17 0:31
Tetrachloro-m-xylene [1]	82.3	30-150		9/22/17 0:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/22/17 0:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/22/17 0:48
Decachlorobiphenyl [2]	89.4	30-150		9/22/17 0:48
Tetrachloro-m-xylene [1]	88.2	30-150		9/22/17 0:48
Tetrachloro-m-xylene [2]	92.8	30-150		9/22/17 0:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.8	50-150		9/20/17 19:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/22/17 1:06
Decachlorobiphenyl [2]	87.4	30-150		9/22/17 1:06
Tetrachloro-m-xylene [1]	86.3	30-150		9/22/17 1:06
Tetrachloro-m-xylene [2]	91.6	30-150		9/22/17 1:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	79.8	50-150		9/20/17 7:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186437	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186437	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC15-SO-27-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC15-SO-27-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC15-SO-27-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Blank (B186484-BLK1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
LCS (B186484-BS1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B186484-BSD1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.212		84.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186484 - SW-846 3540C										
Matrix Spike Dup (B186484-MSD2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.205		101	30-150			
Matrix Spike Dup (B186484-MSD3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.210		96.2	30-150			
Matrix Spike Dup (B186484-MSD4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.208		93.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186472 - SW-846 3546											
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4		50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5		60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6		50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5		60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8		50-150			
Matrix Spike (B186472-MS1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	**-48.7**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.44		78.4		50-150			
Matrix Spike Dup (B186472-MSD1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	**-70.3**	*	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	*2.36*		mg/Kg dry	3.44		68.7		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186437 - % Solids										
Duplicate (B186437-DUP1)		**Source: 17I0378-09**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)		**Source: 17I0378-12**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)		**Source: 17I0378-15**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)		**Source: 17I0378-18**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.0		% Wt		96.3			0.312	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	74	
	2	0.000	-0.030	0.030	78	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 17I0378-05

Date(s) Analyzed: 09/22/2017 09/22/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-2

Lab Sample ID: 17I0378-09

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-3

Lab Sample ID: 17I0378-10

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0378

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-POC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-POC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-POC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-POC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-POC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-POC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-POC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-POC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-POC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-POC-12W-SO-112-3	9/11/17	1217		X	S	U	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-POC-12W-SO-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 1630
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17I0378

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	ETPH	Arsenic										# of Containers	[2] Preservation Code	[3] Container Code
								1												1	I	A
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X														
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X													
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X												
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X													
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X														
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X														
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X														
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X														
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X													
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	X	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.
please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for only PCBs, and WS-AOC-12W-SO-110-2 for PCBs

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? ~~NA~~ T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c - 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D <= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D <= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/22/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 28, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0465

Enclosed are results of analyses for samples received by the laboratory on September 12, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0465

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-AS-21	17I0465-01	Product/Solid		SW-846 8082A	
WS-AOC15-AS-22	17I0465-02	Product/Solid		SW-846 8082A	
WS-AOC15-AS-23	17I0465-03	Product/Solid		SW-846 8082A	
WS-AOC15-AS-24	17I0465-04	Product/Solid		SW-846 8082A	
WS-AOC15-AS-25	17I0465-05	Product/Solid		SW-846 8082A	
WS-AOC15-AS-26	17I0465-06	Product/Solid		SW-846 8082A	
WS-AOC15-AS-27	17I0465-07	Product/Solid		SW-846 8082A	
WS-AOC15-AS-28	17I0465-08	Product/Solid		SW-846 8082A	
WS-AOC15-AS-30	17I0465-09	Product/Solid		SW-846 8082A	
WS-AOC15-AS-31	17I0465-10	Product/Solid		SW-846 8082A	
WS-AOC15-AS-32	17I0465-11	Product/Solid		SW-846 8082A	
WS-AOC15-AS-33	17I0465-12	Product/Solid		SW-846 8082A	
WS-AOC15-AS-34	17I0465-13	Product/Solid		SW-846 8082A	
WS-AOC15-AS-35	17I0465-14	Product/Solid		SW-846 8082A	
WS-AOC15-AS-36	17I0465-15	Product/Solid		SW-846 8082A	
WS-AOC15-AS-37	17I0465-16	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-1	17I0465-17	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-2	17I0465-18	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-3	17I0465-19	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-4	17I0465-20	Product/Solid		SW-846 8082A	
WS-AOC15-AS-Dup20	17I0465-21	Product/Solid		SW-846 8082A	
WS-AOC12N-AS-Dup21	17I0465-22	Product/Solid		SW-846 8082A	
WS-AOC15-SE-29	17I0465-23	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Nickel
17I0465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

Zinc
17I0465-23[WS-AOC15-SE-29], B186613-BS1, B186613-BSD1

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Nickel
17I0465-23[WS-AOC15-SE-29], B186613-BLK1

Zinc
17I0465-23[WS-AOC15-SE-29], B186613-BLK1

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0465-02RE1[WS-AOC15-AS-22], 17I0465-21[WS-AOC15-AS-Dup20], 17I0465-22[WS-AOC12N-AS-Dup21]

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B186606-MS1, B186606-MSD1

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0465-23[WS-AOC15-SE-29]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

4,6-Dinitro-2-methylphenol

17I0465-23[WS-AOC15-SE-29], B186627-BLK1, B186627-BS1, B186627-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3’-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-21 Sampled: 9/12/2017 10:09

Sample ID: 17I0465-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 16:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		9/27/17 16:53
Decachlorobiphenyl [2]	93.6	30-150		9/27/17 16:53
Tetrachloro-m-xylene [1]	87.8	30-150		9/27/17 16:53
Tetrachloro-m-xylene [2]	91.6	30-150		9/27/17 16:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-22 Sampled: 9/12/2017 09:45

Sample ID: 17I0465-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1232 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1242 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1248 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1262 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG
Aroclor-1268 [2]	ND	0.98	mg/Kg	10		SW-846 8082A	9/20/17	9/23/17 4:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/23/17 4:23
Decachlorobiphenyl [2]	77.6	30-150		9/23/17 4:23
Tetrachloro-m-xylene [1]	96.9	30-150		9/23/17 4:23
Tetrachloro-m-xylene [2]	95.5	30-150		9/23/17 4:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-23 Sampled: 9/12/2017 09:44

Sample ID: 17I0465-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.7	30-150		9/27/17 17:11
Decachlorobiphenyl [2]	75.7	30-150		9/27/17 17:11
Tetrachloro-m-xylene [1]	82.9	30-150		9/27/17 17:11
Tetrachloro-m-xylene [2]	85.5	30-150		9/27/17 17:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-24 Sampled: 9/12/2017 09:43

Sample ID: 17I0465-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		9/27/17 17:29
Decachlorobiphenyl [2]	79.5	30-150		9/27/17 17:29
Tetrachloro-m-xylene [1]	83.4	30-150		9/27/17 17:29
Tetrachloro-m-xylene [2]	86.3	30-150		9/27/17 17:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-25 Sampled: 9/12/2017 09:41

Sample ID: 17I0465-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 17:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/27/17 17:47
Decachlorobiphenyl [2]	88.5	30-150		9/27/17 17:47
Tetrachloro-m-xylene [1]	87.6	30-150		9/27/17 17:47
Tetrachloro-m-xylene [2]	89.5	30-150		9/27/17 17:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-26 Sampled: 9/12/2017 10:11

Sample ID: 17I0465-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		9/27/17 18:04
Decachlorobiphenyl [2]	93.6	30-150		9/27/17 18:04
Tetrachloro-m-xylene [1]	95.5	30-150		9/27/17 18:04
Tetrachloro-m-xylene [2]	97.5	30-150		9/27/17 18:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-27 Sampled: 9/12/2017 09:55

Sample ID: 17I0465-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		9/27/17 18:22
Decachlorobiphenyl [2]	88.0	30-150		9/27/17 18:22
Tetrachloro-m-xylene [1]	97.8	30-150		9/27/17 18:22
Tetrachloro-m-xylene [2]	100	30-150		9/27/17 18:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-28 Sampled: 9/12/2017 09:57

Sample ID: 17I0465-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.5	30-150		9/27/17 18:40
Decachlorobiphenyl [2]	94.1	30-150		9/27/17 18:40
Tetrachloro-m-xylene [1]	95.4	30-150		9/27/17 18:40
Tetrachloro-m-xylene [2]	97.3	30-150		9/27/17 18:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-30 Sampled: 9/12/2017 10:19

Sample ID: 17I0465-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 18:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		9/27/17 18:58
Decachlorobiphenyl [2]	97.0	30-150		9/27/17 18:58
Tetrachloro-m-xylene [1]	97.2	30-150		9/27/17 18:58
Tetrachloro-m-xylene [2]	99.4	30-150		9/27/17 18:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-31 Sampled: 9/12/2017 10:20

Sample ID: 17I0465-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		9/27/17 19:16
Decachlorobiphenyl [2]	89.4	30-150		9/27/17 19:16
Tetrachloro-m-xylene [1]	93.8	30-150		9/27/17 19:16
Tetrachloro-m-xylene [2]	95.8	30-150		9/27/17 19:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-32 Sampled: 9/12/2017 10:21

Sample ID: 17I0465-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/27/17 20:22
Decachlorobiphenyl [2]	97.1	30-150		9/27/17 20:22
Tetrachloro-m-xylene [1]	103	30-150		9/27/17 20:22
Tetrachloro-m-xylene [2]	105	30-150		9/27/17 20:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-33 Sampled: 9/12/2017 10:22

Sample ID: 17I0465-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.4	30-150		9/27/17 20:39
Decachlorobiphenyl [2]	99.3	30-150		9/27/17 20:39
Tetrachloro-m-xylene [1]	99.3	30-150		9/27/17 20:39
Tetrachloro-m-xylene [2]	101	30-150		9/27/17 20:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-34 Sampled: 9/12/2017 10:23

Sample ID: 17I0465-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 20:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.3	30-150		9/27/17 20:57
Decachlorobiphenyl [2]	106	30-150		9/27/17 20:57
Tetrachloro-m-xylene [1]	105	30-150		9/27/17 20:57
Tetrachloro-m-xylene [2]	108	30-150		9/27/17 20:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-35 Sampled: 9/12/2017 10:24

Sample ID: 17I0465-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		9/27/17 21:15
Decachlorobiphenyl [2]	99.4	30-150		9/27/17 21:15
Tetrachloro-m-xylene [1]	97.1	30-150		9/27/17 21:15
Tetrachloro-m-xylene [2]	98.1	30-150		9/27/17 21:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-36 Sampled: 9/12/2017 10:25

Sample ID: 17I0465-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/27/17 21:33
Decachlorobiphenyl [2]	91.2	30-150		9/27/17 21:33
Tetrachloro-m-xylene [1]	95.9	30-150		9/27/17 21:33
Tetrachloro-m-xylene [2]	96.7	30-150		9/27/17 21:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-37 Sampled: 9/12/2017 10:26

Sample ID: 17I0465-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 21:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		9/27/17 21:50
Decachlorobiphenyl [2]	83.6	30-150		9/27/17 21:50
Tetrachloro-m-xylene [1]	95.2	30-150		9/27/17 21:50
Tetrachloro-m-xylene [2]	97.4	30-150		9/27/17 21:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-1 Sampled: 9/12/2017 12:30

Sample ID: 17I0465-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/27/17 22:08
Decachlorobiphenyl [2]	99.5	30-150		9/27/17 22:08
Tetrachloro-m-xylene [1]	98.7	30-150		9/27/17 22:08
Tetrachloro-m-xylene [2]	101	30-150		9/27/17 22:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-2 Sampled: 9/12/2017 12:35

Sample ID: 17I0465-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		9/27/17 22:26
Decachlorobiphenyl [2]	101	30-150		9/27/17 22:26
Tetrachloro-m-xylene [1]	101	30-150		9/27/17 22:26
Tetrachloro-m-xylene [2]	102	30-150		9/27/17 22:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-3 Sampled: 9/12/2017 12:40

Sample ID: 17I0465-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 22:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.4	30-150		9/27/17 22:44
Decachlorobiphenyl [2]	93.0	30-150		9/27/17 22:44
Tetrachloro-m-xylene [1]	98.9	30-150		9/27/17 22:44
Tetrachloro-m-xylene [2]	99.1	30-150		9/27/17 22:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-4 Sampled: 9/12/2017 12:45

Sample ID: 17I0465-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/27/17 23:01	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		9/27/17 23:01
Decachlorobiphenyl [2]	89.4	30-150		9/27/17 23:01
Tetrachloro-m-xylene [1]	96.0	30-150		9/27/17 23:01
Tetrachloro-m-xylene [2]	97.2	30-150		9/27/17 23:01

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-AS-Dup20 Sampled: 9/12/2017 00:00

Sample ID: 17I0465-21

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	112	30-150		9/22/17 23:19
Decachlorobiphenyl [2]	96.4	30-150		9/22/17 23:19
Tetrachloro-m-xylene [1]	105	30-150		9/22/17 23:19
Tetrachloro-m-xylene [2]	102	30-150		9/22/17 23:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC12N-AS-Dup21 Sampled: 9/12/2017 00:00

Sample ID: 17I0465-22

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1232 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1242 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1248 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1262 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG
Aroclor-1268 [2]	ND	1.0	mg/Kg	10		SW-846 8082A	9/19/17	9/22/17 23:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.9	30-150		9/22/17 23:36
Decachlorobiphenyl [2]	81.6	30-150		9/22/17 23:36
Tetrachloro-m-xylene [1]	99.6	30-150		9/22/17 23:36
Tetrachloro-m-xylene [2]	99.4	30-150		9/22/17 23:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.0	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Acrylonitrile	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Benzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromodichloromethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromoform	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Bromomethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Butanone (MEK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
sec-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
tert-Butylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Disulfide	ND	0.24	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Carbon Tetrachloride	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chlorodibromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloroform	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Chloromethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Chlorotoluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dibromomethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,4-Dichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,2-Dichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2,2-Dichloropropane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1-Dichloropropene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
cis-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
trans-1,3-Dichloropropene	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Ethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Hexachlorobutadiene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
2-Hexanone (MBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Isopropylbenzene (Cumene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Methylene Chloride	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Naphthalene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
n-Propylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Styrene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrachloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Tetrahydrofuran	ND	0.80	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Toluene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trichlorobenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,1-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichloroethylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,3-Trichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,2,4-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
1,3,5-Trimethylbenzene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
Vinyl Chloride	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
m+p Xylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF
o-Xylene	ND	0.080	mg/Kg dry	1		SW-846 8260C	9/13/17	9/18/17 13:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.2	70-130		9/18/17 13:40
Toluene-d8	99.2	70-130		9/18/17 13:40
4-Bromofluorobenzene	107	70-130		9/18/17 13:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Acenaphthylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Aniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(a)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(b)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(g,h,i)perylene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Benzo(k)fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethoxy)methane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroethyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-chloroisopropyl)ether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Bromophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Butylbenzylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Carbazole	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloroaniline	ND	8.5	mg/Kg dry	5	L-04	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chloro-3-methylphenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chloronaphthalene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Chlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Chlorophenylphenylether	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Chrysene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dibenzofuran	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-butylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3,3-Dichlorobenzidine	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Diethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dimethylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Dimethylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4,6-Dinitro-2-methylphenol	ND	4.4	mg/Kg dry	5	V-04, V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrophenol	ND	8.5	mg/Kg dry	5	V-19, V-20	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,6-Dinitrotoluene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Di-n-octylphthalate	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluoranthene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Fluorene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorobutadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachlorocyclopentadiene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Hexachloroethane	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Indeno(1,2,3-cd)pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Isophorone	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Methylnaphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3/4-Methylphenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Naphthalene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
3-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitroaniline	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Nitrobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2-Nitrophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
4-Nitrophenol	ND	8.5	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodiphenylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
N-Nitrosodi-n-propylamine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachloronitrobenzene	ND	4.4	mg/Kg dry	5	V-16	SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pentachlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenanthrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Phenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyrene	ND	2.2	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
Pyridine	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
1,2,4-Trichlorobenzene	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,5-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL
2,4,6-Trichlorophenol	ND	4.4	mg/Kg dry	5		SW-846 8270D	9/20/17	9/21/17 11:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.8	30-130		9/21/17 11:47
Phenol-d6	50.2	30-130		9/21/17 11:47
Nitrobenzene-d5	47.7	30-130		9/21/17 11:47
2-Fluorobiphenyl	48.2	30-130		9/21/17 11:47
2,4,6-Tribromophenol	46.8	30-130		9/21/17 11:47
p-Terphenyl-d14	61.5	30-130		9/21/17 11:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1254 [2]	0.18	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1260 [2]	0.49	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/19/17	9/21/17 19:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.1	30-150		9/21/17 19:13
Decachlorobiphenyl [2]	77.2	30-150		9/21/17 19:13
Tetrachloro-m-xylene [1]	74.8	30-150		9/21/17 19:13
Tetrachloro-m-xylene [2]	77.9	30-150		9/21/17 19:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	27	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Arsenic	11	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Barium	280	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Cadmium	2.8	0.32	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Chromium	43	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Copper	540	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Lead	1900	0.96	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Mercury	0.28	0.034	mg/Kg dry	1		SW-846 7471B	9/20/17	9/20/17 12:41	TJK
Nickel	49	0.64	mg/Kg dry	1	B, B-07	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 13:13	QNW
Vanadium	110	1.3	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW
Zinc	920	1.3	mg/Kg dry	1	B-07, B	SW-846 6010C-D	9/20/17	9/20/17 17:23	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0465

Date Received: 9/12/2017

Field Sample #: WS-AOC15-SE-29 Sampled: 9/12/2017 12:00

Sample ID: 17I0465-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1		SM 2540G	9/19/17	9/20/17 9:15	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0465-23 [WS-AOC15-SE-29]	B186542	09/19/17

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186613	1.02	50.0	09/20/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186623	0.578	50.0	09/20/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-01 [WS-AOC15-AS-21]	B186600	2.00	10.0	09/19/17
17I0465-03 [WS-AOC15-AS-23]	B186600	2.00	10.0	09/19/17
17I0465-04 [WS-AOC15-AS-24]	B186600	2.00	10.0	09/19/17
17I0465-05 [WS-AOC15-AS-25]	B186600	2.00	10.0	09/19/17
17I0465-06 [WS-AOC15-AS-26]	B186600	2.00	10.0	09/19/17
17I0465-07 [WS-AOC15-AS-27]	B186600	2.00	10.0	09/19/17
17I0465-08 [WS-AOC15-AS-28]	B186600	2.00	10.0	09/19/17
17I0465-09 [WS-AOC15-AS-30]	B186600	2.00	10.0	09/19/17
17I0465-10 [WS-AOC15-AS-31]	B186600	2.00	10.0	09/19/17
17I0465-11 [WS-AOC15-AS-32]	B186600	2.00	10.0	09/19/17
17I0465-12 [WS-AOC15-AS-33]	B186600	2.00	10.0	09/19/17
17I0465-13 [WS-AOC15-AS-34]	B186600	2.00	10.0	09/19/17
17I0465-14 [WS-AOC15-AS-35]	B186600	2.00	10.0	09/19/17
17I0465-15 [WS-AOC15-AS-36]	B186600	2.00	10.0	09/19/17
17I0465-16 [WS-AOC15-AS-37]	B186600	2.00	10.0	09/19/17
17I0465-17 [WS-AOC12N-AS-1]	B186600	2.00	10.0	09/19/17
17I0465-18 [WS-AOC12N-AS-2]	B186600	2.00	10.0	09/19/17
17I0465-19 [WS-AOC12N-AS-3]	B186600	2.00	10.0	09/19/17
17I0465-20 [WS-AOC12N-AS-4]	B186600	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-21 [WS-AOC15-AS-Dup20]	B186606	2.00	10.0	09/19/17
17I0465-22 [WS-AOC12N-AS-Dup21]	B186606	2.00	10.0	09/19/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-02RE1 [WS-AOC15-AS-22]	B186709	2.04	10.0	09/20/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186583	10.0	10.0	09/19/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17I0465-23 [WS-AOC15-SE-29]	B186119	5.04	6.18	1	50	09/13/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0465-23 [WS-AOC15-SE-29]	B186627	30.4	2.00	09/20/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
Blank (B186119-BLK1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
Blank (B186119-BLK1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0230*		mg/Kg wet	0.0283		81.2	70-130			
Surrogate: Toluene-d8	*0.0240*		mg/Kg wet	0.0283		84.8	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0252*		mg/Kg wet	0.0283		88.8	70-130			
LCS (B186119-BS1)				Prepared: 09/13/17 Analyzed: 09/18/17						
Acetone	0.0948	0.057	mg/Kg wet	0.113		83.7	70-130			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		90.6	70-130			
Benzene	0.00989	0.0011	mg/Kg wet	0.0113		87.3	70-130			
Bromobenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Bromomethane	0.0125	0.0023	mg/Kg wet	0.0113		111	70-130			
2-Butanone (MEK)	0.103	0.023	mg/Kg wet	0.113		90.5	70-130			
n-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
sec-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Carbon Disulfide	0.0980	0.0034	mg/Kg wet	0.113		86.4	70-130			
Carbon Tetrachloride	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Chlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Chloroethane	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130			
Chloroform	0.0103	0.0023	mg/Kg wet	0.0113		91.2	70-130			
Chloromethane	0.00887	0.0023	mg/Kg wet	0.0113		78.3	70-130			
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
4-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0110	0.00057	mg/Kg wet	0.0113		97.4	70-130			
Dibromomethane	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
trans-1,4-Dichloro-2-butene	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			
Dichlorodifluoromethane (Freon 12)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1-Dichloroethane	0.0101	0.0011	mg/Kg wet	0.0113		89.3	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1-Dichloroethylene	0.00943	0.0011	mg/Kg wet	0.0113		83.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186119 - SW-846 5035										
LCS (B186119-BS1)				Prepared: 09/13/17 Analyzed: 09/18/17						
cis-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.6	70-130			
trans-1,2-Dichloroethylene	0.00971	0.0011	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dichloropropane	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
1,3-Dichloropropane	0.0108	0.00057	mg/Kg wet	0.0113		95.5	70-130			
2,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloropropene	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
cis-1,3-Dichloropropene	0.0110	0.00057	mg/Kg wet	0.0113		97.3	70-130			
trans-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
Hexachlorobutadiene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
2-Hexanone (MBK)	0.114	0.011	mg/Kg wet	0.113		101	70-130			
Isopropylbenzene (Cumene)	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
Methylene Chloride	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
4-Methyl-2-pentanone (MIBK)	0.115	0.011	mg/Kg wet	0.113		101	70-130			
Naphthalene	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130			
n-Propylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Styrene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,1,2-Tetrachloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,2,2-Tetrachloroethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Tetrachloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Tetrahydrofuran	0.00941	0.011	mg/Kg wet	0.0113		83.0	70-130			
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,2,3-Trichlorobenzene	0.0120	0.0057	mg/Kg wet	0.0113		106	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,1-Trichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.8	70-130			
1,2,3-Trichloropropane	0.00971	0.0023	mg/Kg wet	0.0113		85.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0103	0.0011	mg/Kg wet	0.0113		90.5	70-130			
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Vinyl Chloride	0.00954	0.0023	mg/Kg wet	0.0113		84.2	70-130			
m+p Xylene	0.0227	0.0023	mg/Kg wet	0.0227		100	70-130			
o-Xylene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0267*		mg/Kg wet	0.0283		94.4	70-130			
Surrogate: Toluene-d8	*0.0279*		mg/Kg wet	0.0283		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0283*		mg/Kg wet	0.0283		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							V-04, V-19, V-20
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546												
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.43*		mg/Kg wet	6.67		66.4		30-130				
Surrogate: Phenol-d6	*4.62*		mg/Kg wet	6.67		69.3		30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		69.0		30-130				
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.98*		mg/Kg wet	6.67		59.8		30-130				
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5		30-130				
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17								
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8		40-140				
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.3		40-140				
Aniline	0.956	0.34	mg/Kg wet	1.67		57.4		40-140				†
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1		40-140				
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.2		40-140				
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1		40-140				
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8		40-140				
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.5		40-140				
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.7		40-140				
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.4		40-140				
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7		40-140				
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1		40-140				
Bis(2-Ethylhexyl)phthalate	1.29	0.34	mg/Kg wet	1.67		77.4		40-140				
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.6		40-140				
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2		40-140				
Carbazole	1.04	0.17	mg/Kg wet	1.67		62.3		40-140				
4-Chloroaniline	0.603	0.66	mg/Kg wet	1.67		**36.2**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.05	0.66	mg/Kg wet	1.67		62.9		30-130				
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		63.3		40-140				
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130				
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.1		40-140				
Chrysene	0.996	0.17	mg/Kg wet	1.67		59.7		40-140				
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140				
Dibenzofuran	1.03	0.34	mg/Kg wet	1.67		62.0		40-140				
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5		40-140				
3,3-Dichlorobenzidine	1.44	0.17	mg/Kg wet	1.67		86.4		40-140				†
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5		30-130				
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.3		40-140				
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.1		30-130				
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		65.0		40-140				
4,6-Dinitro-2-methylphenol	1.24	0.34	mg/Kg wet	1.67		74.6		30-130			V-04, V-19, V-20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546											
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17							
2,4-Dinitrophenol	1.11	0.66	mg/Kg wet	1.67		66.3	30-130			V-19, V-20	
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140				
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140				
Di-n-octylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140				
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140				
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140				
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140				
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140				
Hexachlorocyclopentadiene	1.03	0.34	mg/Kg wet	1.67		61.8	30-140				
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.3	40-140				
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140				
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.2	40-140				
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140				
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130				
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130				
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140				
2-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.5	40-140				
3-Nitroaniline	0.938	0.34	mg/Kg wet	1.67		56.3	40-140				†
4-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6	40-140				
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140				
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130				
4-Nitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0	10-130				
N-Nitrosodiphenylamine	1.39	0.34	mg/Kg wet	1.67		83.4	40-140				
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.4	40-140				
Pentachloronitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			V-16	
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130				
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140				
Phenol	1.08	0.34	mg/Kg wet	1.67		64.7	20-130				
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140				
Pyridine	0.784	0.34	mg/Kg wet	1.67		47.0	10-140				†
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140				
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140				
2,4,5-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1	30-130				
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130				
Surrogate: 2-Fluorophenol	*4.49*		mg/Kg wet	6.67		67.3	30-130				
Surrogate: Phenol-d6	*4.53*		mg/Kg wet	6.67		67.9	30-130				
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.3	30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.28*		mg/Kg wet	6.67		64.2	30-130				
Surrogate: p-Terphenyl-d14	*2.21*		mg/Kg wet	3.33		66.2	30-130				
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17							
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30		
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30		
Aniline	0.908	0.34	mg/Kg wet	1.67		54.5	40-140	5.15	50		† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.64	30		
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.92	30		
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	5.08	30		
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	5.23	30		
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.90	30		
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	6.43	30		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	3.36	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B186627 - SW-846 3546												
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17								
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1		40-140	3.69	30		
Bis(2-chloroisopropyl)ether	1.19	0.34	mg/Kg wet	1.67		71.1		40-140	5.42	30		
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.7		40-140	3.55	30		
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.67		71.5		40-140	4.17	30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140	3.15	30		
Carbazole	1.07	0.17	mg/Kg wet	1.67		64.3		40-140	3.16	30		
4-Chloroaniline	0.561	0.66	mg/Kg wet	1.67		**33.7**	*	40-140	7.16	30	L-04	†
4-Chloro-3-methylphenol	1.04	0.66	mg/Kg wet	1.67		62.3		30-130	0.959	30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	1.13	30		
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5		30-130	3.89	30		
4-Chlorophenylphenylether	1.08	0.34	mg/Kg wet	1.67		64.7		40-140	0.586	30		
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8		40-140	5.06	30		
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.6		40-140	8.39	30		
Dibenzofuran	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	1.06	30		
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.6		40-140	3.06	30		
3,3-Dichlorobenzidine	1.53	0.17	mg/Kg wet	1.67		91.6		40-140	5.91	30		† ‡
2,4-Dichlorophenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130	2.34	30		
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.4		40-140	0.192	30		
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.4		30-130	2.71	30		
Dimethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.5		40-140	0.742	50		
4,6-Dinitro-2-methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4		30-130	2.36	50	V-04, V-19, V-20	
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.3		30-130	3.03	50	V-19, V-20	
2,4-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.5		40-140	0.929	30		
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0		40-140	0.505	30		
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.7		40-140	7.95	30		
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2		40-140	4.10	30		
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.2		40-140	0.860	30		
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5		40-140	1.03	30		
Hexachlorobutadiene	0.976	0.34	mg/Kg wet	1.67		58.5		40-140	5.90	30		
Hexachlorocyclopentadiene	1.04	0.34	mg/Kg wet	1.67		62.7		30-140	1.48	50		
Hexachloroethane	0.969	0.34	mg/Kg wet	1.67		58.1		40-140	6.88	50		
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1		40-140	6.87	50		
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.0		40-140	3.01	30		
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3		40-140	4.36	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.1		30-130	1.73	30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.9		30-130	1.92	30		
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4		40-140	3.33	30		
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	1.09	30		
3-Nitroaniline	0.928	0.34	mg/Kg wet	1.67		55.7		40-140	1.04	30		†
4-Nitroaniline	1.08	0.34	mg/Kg wet	1.67		64.8		40-140	1.93	30		
Nitrobenzene	1.10	0.34	mg/Kg wet	1.67		65.7		40-140	5.71	30		
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130	4.32	30		
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.5		10-130	0.721	50		‡
N-Nitrosodiphenylamine	1.46	0.34	mg/Kg wet	1.67		87.7		40-140	5.00	30		
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.9		40-140	3.81	30		
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	3.91	30	V-16	
Pentachlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7		30-130	3.92	50		
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140	4.34	30		
Phenol	1.04	0.34	mg/Kg wet	1.67		62.6		20-130	3.21	30		
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	5.68	30		
Pyridine	0.714	0.34	mg/Kg wet	1.67		42.8		10-140	9.35	50		†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	1.54	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
1,2,4-Trichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.91	30	
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130	0.740	30	
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	0.275	50	
Surrogate: 2-Fluorophenol	*4.21*		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Phenol-d6	*4.31*		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg wet	3.33		69.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.31*		mg/Kg wet	6.67		64.7	30-130			
Surrogate: p-Terphenyl-d14	*2.27*		mg/Kg wet	3.33		68.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186583 - SW-846 3540C										
Blank (B186583-BLK1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
LCS (B186583-BS1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.0	40-140			
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.1	30-150			
LCS Dup (B186583-BSD1)				Prepared: 09/19/17 Analyzed: 09/21/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	11.1	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	6.92	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	6.32	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	5.03	30	
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186600 - SW-846 3540C										
Blank (B186600-BLK1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.926*		mg/Kg	1.00		92.6	30-150			
LCS (B186600-BS1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		85.1	40-140			
Aroclor-1016 [2C]	0.87	0.10	mg/Kg	1.00		86.8	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260 [2C]	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Surrogate: Decachlorobiphenyl	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.847*		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.876*		mg/Kg	1.00		87.6	30-150			
LCS Dup (B186600-BSD1)				Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.5	40-140	7.22	30	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.1	40-140	3.73	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.8	40-140	5.94	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.2	40-140	3.06	30	
Surrogate: Decachlorobiphenyl	*0.933*		mg/Kg	1.00		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.921*		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.924*		mg/Kg	1.00		92.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186600 - SW-846 3540C										
Matrix Spike (B186600-MS1)		**Source: 17I0465-07**		Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	1.0	1.0	mg/Kg	1.00	ND	99.8	40-140			
Aroclor-1016 [2C]	1.0	1.0	mg/Kg	1.00	ND	101	40-140			
Aroclor-1260	0.84	1.0	mg/Kg	1.00	ND	84.3	40-140			
Aroclor-1260 [2C]	0.85	1.0	mg/Kg	1.00	ND	84.8	40-140			
Surrogate: Decachlorobiphenyl	*0.700*		mg/Kg	1.00		70.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.799*		mg/Kg	1.00		79.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.901*		mg/Kg	1.00		90.1	30-150			
Matrix Spike Dup (B186600-MSD1)		**Source: 17I0465-07**		Prepared: 09/19/17 Analyzed: 09/27/17						
Aroclor-1016	0.94	1.0	mg/Kg	1.00	ND	94.3	40-140	5.66	50	
Aroclor-1016 [2C]	0.94	1.0	mg/Kg	1.00	ND	94.1	40-140	7.48	50	
Aroclor-1260	0.81	1.0	mg/Kg	1.00	ND	81.0	40-140	3.99	50	
Aroclor-1260 [2C]	0.81	1.0	mg/Kg	1.00	ND	80.9	40-140	4.64	50	
Surrogate: Decachlorobiphenyl	*0.675*		mg/Kg	1.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.775*		mg/Kg	1.00		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.864*		mg/Kg	1.00		86.4	30-150			
Batch B186606 - SW-846 3540C										
Blank (B186606-BLK1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.14*		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186606 - SW-846 3540C										
LCS (B186606-BS1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		101	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		104	40-140			
Aroclor-1260	0.96	0.10	mg/Kg	1.00		96.0	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.1	40-140			
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B186606-BSD1)				Prepared: 09/19/17 Analyzed: 09/22/17						
Aroclor-1016	0.95	0.10	mg/Kg	1.00		94.8	40-140	6.81	30	
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00		96.3	40-140	8.14	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	7.91	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		82.5	40-140	6.53	30	
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.896*		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.942*		mg/Kg	1.00		94.2	30-150			
Matrix Spike (B186606-MS1)		**Source: 17I0465-21**		Prepared: 09/19/17 Analyzed: 09/23/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140			
Aroclor-1016 [2C]	0.96	0.10	mg/Kg	1.00	ND	96.5	40-140			
Aroclor-1260	0.99	0.10	mg/Kg	1.00	ND	98.5	40-140			
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	1.00	ND	140	40-140			MS-22
Surrogate: Decachlorobiphenyl	*0.733*		mg/Kg	1.00		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.766*		mg/Kg	1.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.807*		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.865*		mg/Kg	1.00		86.5	30-150			
Matrix Spike Dup (B186606-MSD1)		**Source: 17I0465-21**		Prepared: 09/19/17 Analyzed: 09/23/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00	ND	81.5	40-140	0.0227	50	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00	ND	90.5	40-140	6.32	50	
Aroclor-1260	1.1	0.10	mg/Kg	1.00	ND	107	40-140	8.38	50	
Aroclor-1260 [2C]	1.5	0.10	mg/Kg	1.00	ND	**152** *	40-140	8.28	50	MS-22
Surrogate: Decachlorobiphenyl	*0.758*		mg/Kg	1.00		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.807*		mg/Kg	1.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.843*		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.913*		mg/Kg	1.00		91.3	30-150			
Batch B186709 - SW-846 3540C										
Blank (B186709-BLK1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186709 - SW-846 3540C										
Blank (B186709-BLK1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			
LCS (B186709-BS1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	1.1	0.10	mg/Kg	1.00		109	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		114	40-140			
Aroclor-1260	1.0	0.10	mg/Kg	1.00		102	40-140			
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	1.00		99.0	40-140			
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			
LCS Dup (B186709-BSD1)				Prepared: 09/20/17 Analyzed: 09/23/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		103	40-140	5.77	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		108	40-140	4.58	30	
Aroclor-1260	0.99	0.10	mg/Kg	1.00		98.5	40-140	3.52	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		93.3	40-140	5.97	30	
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186613 - SW-846 3051										
Blank (B186613-BLK1)				Prepared & Analyzed: 09/20/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	0.96	0.50	mg/Kg wet							B-07
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	2.6	1.0	mg/Kg wet							B-07
LCS (B186613-BS1)				Prepared & Analyzed: 09/20/17						
Antimony	137	5.0	mg/Kg wet	146		93.7	0-210.3			
Arsenic	150	5.0	mg/Kg wet	157		95.3	77.8-122.1			
Barium	312	5.0	mg/Kg wet	339		92.0	82-117.4			
Beryllium	52.4	0.50	mg/Kg wet	58.3		89.9	82.3-117.7			
Cadmium	200	0.50	mg/Kg wet	216		92.8	81.9-118.2			
Chromium	81.7	1.0	mg/Kg wet	88.9		92.0	78.7-120.6			
Copper	179	1.0	mg/Kg wet	184		97.5	80.4-119.6			
Lead	94.8	1.5	mg/Kg wet	94.3		101	82.4-117.8			
Nickel	144	1.0	mg/Kg wet	154		93.5	82.2-117.8			B
Selenium	201	10	mg/Kg wet	207		97.1	77.1-122.3			
Silver	34.4	1.0	mg/Kg wet	43.8		78.4	74.3-125.4			
Thallium	153	5.0	mg/Kg wet	167		91.4	78.2-121.6			
Vanadium	86.0	2.0	mg/Kg wet	100		86.0	64.8-135.2			
Zinc	205	2.0	mg/Kg wet	209		98.0	79.7-120.8			B
LCS Dup (B186613-BSD1)				Prepared & Analyzed: 09/20/17						
Antimony	155	5.0	mg/Kg wet	146		106	0-210.3	12.7	30	
Arsenic	158	5.0	mg/Kg wet	157		101	77.8-122.1	5.76	30	
Barium	335	5.0	mg/Kg wet	339		98.9	82-117.4	7.21	30	
Beryllium	58.3	0.50	mg/Kg wet	58.3		99.9	82.3-117.7	10.6	30	
Cadmium	223	0.50	mg/Kg wet	216		103	81.9-118.2	10.8	30	
Chromium	88.9	1.0	mg/Kg wet	88.9		100	78.7-120.6	8.40	30	
Copper	195	1.0	mg/Kg wet	184		106	80.4-119.6	8.30	30	
Lead	97.5	1.5	mg/Kg wet	94.3		103	82.4-117.8	2.79	30	
Nickel	161	1.0	mg/Kg wet	154		105	82.2-117.8	11.3	30	B
Selenium	214	10	mg/Kg wet	207		104	77.1-122.3	6.42	30	
Silver	36.8	1.0	mg/Kg wet	43.8		83.9	74.3-125.4	6.78	30	
Thallium	163	5.0	mg/Kg wet	167		97.7	78.2-121.6	6.68	30	
Vanadium	97.3	2.0	mg/Kg wet	100		97.3	64.8-135.2	12.4	30	
Zinc	225	2.0	mg/Kg wet	209		108	79.7-120.8	9.46	30	B

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186613 - SW-846 3051										
MRL Check (B186613-MRL1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Lead	0.618	0.69	mg/Kg wet	0.689		89.7	80-120			
Batch B186623 - SW-846 7471										
Blank (B186623-BLK1)				Prepared & Analyzed: 09/20/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B186623-BS1)				Prepared & Analyzed: 09/20/17						
Mercury	9.90	1.9	mg/Kg wet	9.36		106	73.7-126.3			
LCS Dup (B186623-BSD1)				Prepared & Analyzed: 09/20/17						
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	3.63	30	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC15-SE-29

Lab Sample ID: 17I0465-23

Date(s) Analyzed: 09/21/2017 09/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.49	33.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-12	Elevated reporting limit due to matrix interference.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I04165

con-test ANALYTICAL LABORATORY

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	I	H	A
01	WS-AOC15-AS-21	9/12/17	1007		X	O	U	X			
02	WS-AOC15-AS-22	↓	945		↓	↓	↓	X			
03	WS-AOC15-AS-23		944					X			
04	WS-AOC15-AS-24		943					X			
05	WS-AOC15-AS-25		941					X			
06	WS-AOC15-AS-26		1011					X			
07	*WS-AOC15-AS-27		955					X			
08	WS-AOC15-AS-28		957					X			
09	WS-AOC15-AS-30		1019					X			
10	WS-AOC15-AS-31	↓	1020		↓	↓	↓	X			

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments: * - WS-AOC15-AS-27 - Run MS/MSD Duplicate

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous Media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
9/12/17	1445
Received by: (signature) 9/12/17	Date/Time: 1445
Relinquished by: (signature) 9/12/17	Date/Time: 1930
Received by: (signature) 9/13/17	Date/Time: 1010
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)											
11	WS-AOC15--AS-32	9/12/17	1021		X	O	U	X											
12	WS-AOC15-AS-33	↓	1022		↓	↓	↓	X											
13	WS-AOC15--AS-34		1023					X											
14	WS-AOC15-AS-35		1024					X											
15	WS-AOC15--AS-36		1025					X											
16	WS-AOC15-AS-37		1026					X											
17	WS-AOC12N-AS-1		1230					X											
18	WS-AOC12N-AS-2		1235					X											
19	WS-AOC12N-AS-3		1240					X											
20	WS-AOC12N-AS-4	↓	1245		↓	↓	↓	X											

[1]																			# of Containers
[2]																			[2] Preservation Code
[3]																			[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous Media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 9/12/17	1445
Received by: (signature) [signature] 9/12/17	Date/Time:
Relinquished by: (signature)	Date/Time: 9/12/17
Received by: (signature) [signature] 4.4°C	Date/Time: 9/12/17 1610
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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CHAIN OF CUSTODY RECORD

39 Spruce Street
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Company Name:	Weston & Sampson Engineers
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Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	PAHs	RSR 15 metals	SVOCs	VOCs							# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC15-AS-Dup 20	9/12/17	—		X	O	U	X													
22	WS-AOC15-AS-Dup 21		—		X	O	U	X													
23	WS-AOC15-SE-29		1200		X	S	U	X	X	X	X	X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) Porous media

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/12/17 1145
Received by: (signature)	Date/Time: 9/12/17 1470
Relinquished by: (signature)	Date/Time: 9/12/17 YD
Received by: (signature) 4.4°C	Date/Time: 9/12/17 1610
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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9/12/17 1610

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By RLF Date 9/12/17 Time 1610

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? NA
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	4
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	23
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		9/12/17 1610	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0465

Laboratory Sample ID(s):

17I0465-01 thru 17I0465-23

Sample Date(s):

09/12/2017

List RCP Methods Used:

, , SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/28/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12E-SO-5-1	17I0112-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-5-2	17I0112-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-1	17I0112-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-2	17I0112-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-3	17I0112-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-1	17I0112-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-2	17I0112-07	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-35-3	17I0112-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-1	17I0112-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-21-2	17I0112-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-3	17I0112-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-1	17I0112-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-2	17I0112-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-3	17I0112-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-1	17I0112-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-2	17I0112-16	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-1-3	17I0112-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-1	17I0112-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-2	17I0112-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-3	17I0112-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-Dup47	17I0112-21	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank - 61	17I0112-22	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment Blank - 62	17I0112-23	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0112-07[WS-AOC12E-SO-35-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.4	30-150		9/16/17 14:07
Decachlorobiphenyl [2]	110	30-150		9/16/17 14:07
Tetrachloro-m-xylene [1]	95.8	30-150		9/16/17 14:07
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 14:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		9/12/17 23:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/16/17 14:24
Decachlorobiphenyl [2]	103	30-150		9/16/17 14:24
Tetrachloro-m-xylene [1]	95.4	30-150		9/16/17 14:24
Tetrachloro-m-xylene [2]	96.1	30-150		9/16/17 14:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:42
Decachlorobiphenyl [2]	100	30-150		9/16/17 14:42
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 14:42
Tetrachloro-m-xylene [2]	95.9	30-150		9/16/17 14:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.1	50-150		9/12/17 21:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:59
Decachlorobiphenyl [2]	105	30-150		9/16/17 14:59
Tetrachloro-m-xylene [1]	91.1	30-150		9/16/17 14:59
Tetrachloro-m-xylene [2]	95.1	30-150		9/16/17 14:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		9/16/17 15:17
Decachlorobiphenyl [2]	112	30-150		9/16/17 15:17
Tetrachloro-m-xylene [1]	100	30-150		9/16/17 15:17
Tetrachloro-m-xylene [2]	106	30-150		9/16/17 15:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/16/17 15:34
Decachlorobiphenyl [2]	88.3	30-150		9/16/17 15:34
Tetrachloro-m-xylene [1]	84.8	30-150		9/16/17 15:34
Tetrachloro-m-xylene [2]	84.3	30-150		9/16/17 15:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.2	50-150		9/12/17 21:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	35.1	30-130		9/12/17 17:56
2-Fluorobiphenyl	37.6	30-130		9/12/17 17:56
p-Terphenyl-d14	42.2	30-130		9/12/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		9/16/17 15:52
Decachlorobiphenyl [2]	86.7	30-150		9/16/17 15:52
Tetrachloro-m-xylene [1]	88.2	30-150		9/16/17 15:52
Tetrachloro-m-xylene [2]	92.2	30-150		9/16/17 15:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/16/17 16:09
Decachlorobiphenyl [2]	86.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [1]	89.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 16:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.9	30-130		9/12/17 18:24
2-Fluorobiphenyl	53.0	30-130		9/12/17 18:24
p-Terphenyl-d14	60.1	30-130		9/12/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		9/16/17 16:27
Decachlorobiphenyl [2]	84.8	30-150		9/16/17 16:27
Tetrachloro-m-xylene [1]	86.6	30-150		9/16/17 16:27
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 16:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		9/16/17 17:32
Decachlorobiphenyl [2]	99.8	30-150		9/16/17 17:32
Tetrachloro-m-xylene [1]	94.4	30-150		9/16/17 17:32
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 17:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.9	50-150		9/12/17 22:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		9/16/17 17:49
Decachlorobiphenyl [2]	92.2	30-150		9/16/17 17:49
Tetrachloro-m-xylene [1]	89.8	30-150		9/16/17 17:49
Tetrachloro-m-xylene [2]	92.4	30-150		9/16/17 17:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		9/16/17 18:07
Decachlorobiphenyl [2]	102	30-150		9/16/17 18:07
Tetrachloro-m-xylene [1]	110	30-150		9/16/17 18:07
Tetrachloro-m-xylene [2]	118	30-150		9/16/17 18:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:24
Decachlorobiphenyl [2]	94.8	30-150		9/16/17 18:24
Tetrachloro-m-xylene [1]	96.3	30-150		9/16/17 18:24
Tetrachloro-m-xylene [2]	107	30-150		9/16/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.0	50-150		9/12/17 18:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		9/16/17 18:42
Decachlorobiphenyl [2]	94.3	30-150		9/16/17 18:42
Tetrachloro-m-xylene [1]	87.7	30-150		9/16/17 18:42
Tetrachloro-m-xylene [2]	93.1	30-150		9/16/17 18:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:59
Decachlorobiphenyl [2]	98.6	30-150		9/16/17 18:59
Tetrachloro-m-xylene [1]	95.9	30-150		9/16/17 18:59
Tetrachloro-m-xylene [2]	102	30-150		9/16/17 18:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.4	50-150		9/12/17 22:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		9/16/17 19:16
Decachlorobiphenyl [2]	102	30-150		9/16/17 19:16
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 19:16
Tetrachloro-m-xylene [2]	89.6	30-150		9/16/17 19:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		9/16/17 19:34
Decachlorobiphenyl [2]	80.4	30-150		9/16/17 19:34
Tetrachloro-m-xylene [1]	80.3	30-150		9/16/17 19:34
Tetrachloro-m-xylene [2]	85.3	30-150		9/16/17 19:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		9/16/17 19:51
Decachlorobiphenyl [2]	89.4	30-150		9/16/17 19:51
Tetrachloro-m-xylene [1]	92.2	30-150		9/16/17 19:51
Tetrachloro-m-xylene [2]	93.5	30-150		9/16/17 19:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		9/16/17 20:09
Decachlorobiphenyl [2]	67.8	30-150		9/16/17 20:09
Tetrachloro-m-xylene [1]	81.2	30-150		9/16/17 20:09
Tetrachloro-m-xylene [2]	96.9	30-150		9/16/17 20:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.4	50-150		9/12/17 22:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.9	30-150		9/16/17 20:26
Decachlorobiphenyl [2]	64.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [1]	70.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [2]	65.6	30-150		9/16/17 20:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/11/17 18:49
Decachlorobiphenyl [2]	89.8	30-150		9/11/17 18:49
Tetrachloro-m-xylene [1]	83.6	30-150		9/11/17 18:49
Tetrachloro-m-xylene [2]	77.2	30-150		9/11/17 18:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		9/14/17 17:06
2-Fluorobiphenyl	80.0	30-130		9/14/17 17:06
p-Terphenyl-d14	80.2	30-130		9/14/17 17:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/14/17 17:16
Decachlorobiphenyl [2]	74.0	30-150		9/14/17 17:16
Tetrachloro-m-xylene [1]	95.5	30-150		9/14/17 17:16
Tetrachloro-m-xylene [2]	79.0	30-150		9/14/17 17:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.7	50-150		9/12/17 21:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.7	30-130		9/14/17 17:35
2-Fluorobiphenyl	83.4	30-130		9/14/17 17:35
p-Terphenyl-d14	81.6	30-130		9/14/17 17:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		9/14/17 17:28
Decachlorobiphenyl [2]	79.1	30-150		9/14/17 17:28
Tetrachloro-m-xylene [1]	104	30-150		9/14/17 17:28
Tetrachloro-m-xylene [2]	79.6	30-150		9/14/17 17:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		9/12/17 21:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185922 - SW-846 3546										
Blank (B185922-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.10*		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8	30-130			
LCS (B185922-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.7	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185922 - SW-846 3546										
LCS Dup (B185922-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Batch B185977 - SW-846 3510C										
Blank (B185977-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*87.6*		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	*85.2*		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	*82.4*		µg/L	100		82.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185977 - SW-846 3510C										
LCS (B185977-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	*92.6*		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*93.5*		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	*98.4*		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	*99.8*		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	*86.0*		µg/L	100		86.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185890 - SW-846 3510C										
Blank (B185890-BLK1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.96*		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.18*		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	*2.02*		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.80*		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185830 - SW-846 3540C										
Blank (B185830-BLK1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.142*		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185867 - SW-846 3540C										
Blank (B185867-BLK1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg wet	0.200		75.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185867 - SW-846 3540C										
Matrix Spike (B185867-MS1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.225		90.2	30-150			
Matrix Spike Dup (B185867-MSD1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.224*		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.228		105	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185892 - SW-846 3510C											
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.0784*		mg/L	0.100		78.4		50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.633	0.075	mg/L	1.00		63.3		60-120			
Surrogate: o-Terphenyl	*0.0709*		mg/L	0.100		70.9		50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.663	0.075	mg/L	1.00		66.3		60-120	4.71	30	
Surrogate: o-Terphenyl	*0.0745*		mg/L	0.100		74.5		50-150			
Batch B185921 - SW-846 3546											
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.52*		mg/Kg wet	3.33		75.6		50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0		60-120			
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.0		50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8		60-120	6.10	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4		50-150			
Matrix Spike (B185921-MS1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	242	56	mg/Kg dry	37.3	261	**-50.1**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*2.44*		mg/Kg dry	3.73		65.3		50-150			
Matrix Spike Dup (B185921-MSD1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	259	56	mg/Kg dry	37.3	261	**-5.38**	*	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	*2.47*		mg/Kg dry	3.73		66.2		50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185594 - % Solids										
Duplicate (B185594-DUP5)		**Source: 17I0112-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt		81.9			3.86	20	
Duplicate (B185594-DUP6)		**Source: 17I0112-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt		83.0			2.19	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0112

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	ETPH	PAHs
1	WS-AOC12E-SO-5-1	9/5/17	1330		X	S	U	X	X	
2	WS-AOC12E-SO-5-2		1331					X		
3	WS-AOC12E-SO-17-1		1340					X	X	
4	WS-AOC12E-SO-17-2		1341					X		
5	WS-AOC12E-SO-17-3		1342					X		
6	WS-AOC12E-SO-35-1		1403					X	X	
7	WS-AOC12E-SO-35-2		1404					X		X
8	WS-AOC12E-SO-35-3		1405					X		
9	WS-AOC12E-SO-21-1		1400					X		X
10	WS-AOC12E-SO-21-2		1401					X	X	

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature) 9/5/17	Date/Time: 1640
Received by: (signature) 9/5/17	Date/Time: 1640
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	Kepone	PAH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-21-3	9/5/17	1402		X	S	U	X					
12	WS-AOC12E-SO-25-1		1414					X					
13	WS-AOC12E-SO-25-2		1415					X	X				
14	WS-AOC12E-SO-25-3		1416					X					
15	WS-AOC15-SO-1-1		1427					X	X				
16	WS-AOC15-SO-1-2		1428					X					
17	WS-AOC15-SO-1-3		1429					X					
18	WS-AOC12E-SO-42-1		1459					X					
19	WS-AOC12E-SO-42-2		1500					X	X				
20	WS-AOC12E-SO-42-3		1501		↓	↓	↓	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1640
Received by: (signature) 3-3	Date/Time: 9/5/17 1690
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	ETPH	PAH	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOCIZE-SO-Dup47	9/5/17	—		X	S	U	X					
22	Equipment Blank-61	↓	1200		X	W	U	X	X	X			
23	Equipment Blank-62	↓	1220		X	W	U	X	X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
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O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
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P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
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O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
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Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1440
Received by: (signature) 9/5/17	Date/Time: 1640
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/5/17 Time 1640

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 3.7
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	21
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912039.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
17I0112-22
17I0112-23
17I0137-01
17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples
17H1672-02
17H1672-03
17H1672-04
17H1672-08
17H1672-12
17H1672-14
17H1672-16
17I0112-13
17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912038.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples
17I0112-06
17I0112-03
17I0112-10
17I0112-15
17I0112-19
17I0297-01
17H1672-01
17H1672-09
17I0112-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0112

Laboratory Sample ID(s):

17I0112-01 thru 17I0112-23

Sample Date(s):

09/05/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/18/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12E-SO-5-1	17I0112-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-5-2	17I0112-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-1	17I0112-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-2	17I0112-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-3	17I0112-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-1	17I0112-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-2	17I0112-07	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-35-3	17I0112-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-1	17I0112-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-21-2	17I0112-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-3	17I0112-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-1	17I0112-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-2	17I0112-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-3	17I0112-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-1	17I0112-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-2	17I0112-16	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC15-SO-1-3	17I0112-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-1	17I0112-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-2	17I0112-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-3	17I0112-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-Dup47	17I0112-21	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank - 61	17I0112-22	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment Blank - 62	17I0112-23	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0112-07[WS-AOC12E-SO-35-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.4	30-150		9/16/17 14:07
Decachlorobiphenyl [2]	110	30-150		9/16/17 14:07
Tetrachloro-m-xylene [1]	95.8	30-150		9/16/17 14:07
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 14:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		9/12/17 23:59

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/16/17 14:24
Decachlorobiphenyl [2]	103	30-150		9/16/17 14:24
Tetrachloro-m-xylene [1]	95.4	30-150		9/16/17 14:24
Tetrachloro-m-xylene [2]	96.1	30-150		9/16/17 14:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:42
Decachlorobiphenyl [2]	100	30-150		9/16/17 14:42
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 14:42
Tetrachloro-m-xylene [2]	95.9	30-150		9/16/17 14:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.1	50-150		9/12/17 21:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:59
Decachlorobiphenyl [2]	105	30-150		9/16/17 14:59
Tetrachloro-m-xylene [1]	91.1	30-150		9/16/17 14:59
Tetrachloro-m-xylene [2]	95.1	30-150		9/16/17 14:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		9/16/17 15:17
Decachlorobiphenyl [2]	112	30-150		9/16/17 15:17
Tetrachloro-m-xylene [1]	100	30-150		9/16/17 15:17
Tetrachloro-m-xylene [2]	106	30-150		9/16/17 15:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/16/17 15:34
Decachlorobiphenyl [2]	88.3	30-150		9/16/17 15:34
Tetrachloro-m-xylene [1]	84.8	30-150		9/16/17 15:34
Tetrachloro-m-xylene [2]	84.3	30-150		9/16/17 15:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.2	50-150		9/12/17 21:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	35.1	30-130		9/12/17 17:56
2-Fluorobiphenyl	37.6	30-130		9/12/17 17:56
p-Terphenyl-d14	42.2	30-130		9/12/17 17:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		9/16/17 15:52
Decachlorobiphenyl [2]	86.7	30-150		9/16/17 15:52
Tetrachloro-m-xylene [1]	88.2	30-150		9/16/17 15:52
Tetrachloro-m-xylene [2]	92.2	30-150		9/16/17 15:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/16/17 16:09
Decachlorobiphenyl [2]	86.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [1]	89.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 16:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.9	30-130		9/12/17 18:24
2-Fluorobiphenyl	53.0	30-130		9/12/17 18:24
p-Terphenyl-d14	60.1	30-130		9/12/17 18:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		9/16/17 16:27
Decachlorobiphenyl [2]	84.8	30-150		9/16/17 16:27
Tetrachloro-m-xylene [1]	86.6	30-150		9/16/17 16:27
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 16:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		9/16/17 17:32
Decachlorobiphenyl [2]	99.8	30-150		9/16/17 17:32
Tetrachloro-m-xylene [1]	94.4	30-150		9/16/17 17:32
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 17:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.9	50-150		9/12/17 22:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		9/16/17 17:49
Decachlorobiphenyl [2]	92.2	30-150		9/16/17 17:49
Tetrachloro-m-xylene [1]	89.8	30-150		9/16/17 17:49
Tetrachloro-m-xylene [2]	92.4	30-150		9/16/17 17:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		9/16/17 18:07
Decachlorobiphenyl [2]	102	30-150		9/16/17 18:07
Tetrachloro-m-xylene [1]	110	30-150		9/16/17 18:07
Tetrachloro-m-xylene [2]	118	30-150		9/16/17 18:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:24
Decachlorobiphenyl [2]	94.8	30-150		9/16/17 18:24
Tetrachloro-m-xylene [1]	96.3	30-150		9/16/17 18:24
Tetrachloro-m-xylene [2]	107	30-150		9/16/17 18:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.0	50-150		9/12/17 18:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		9/16/17 18:42
Decachlorobiphenyl [2]	94.3	30-150		9/16/17 18:42
Tetrachloro-m-xylene [1]	87.7	30-150		9/16/17 18:42
Tetrachloro-m-xylene [2]	93.1	30-150		9/16/17 18:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:59
Decachlorobiphenyl [2]	98.6	30-150		9/16/17 18:59
Tetrachloro-m-xylene [1]	95.9	30-150		9/16/17 18:59
Tetrachloro-m-xylene [2]	102	30-150		9/16/17 18:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.4	50-150		9/12/17 22:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		9/16/17 19:16
Decachlorobiphenyl [2]	102	30-150		9/16/17 19:16
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 19:16
Tetrachloro-m-xylene [2]	89.6	30-150		9/16/17 19:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		9/16/17 19:34
Decachlorobiphenyl [2]	80.4	30-150		9/16/17 19:34
Tetrachloro-m-xylene [1]	80.3	30-150		9/16/17 19:34
Tetrachloro-m-xylene [2]	85.3	30-150		9/16/17 19:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		9/16/17 19:51
Decachlorobiphenyl [2]	89.4	30-150		9/16/17 19:51
Tetrachloro-m-xylene [1]	92.2	30-150		9/16/17 19:51
Tetrachloro-m-xylene [2]	93.5	30-150		9/16/17 19:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		9/16/17 20:09
Decachlorobiphenyl [2]	67.8	30-150		9/16/17 20:09
Tetrachloro-m-xylene [1]	81.2	30-150		9/16/17 20:09
Tetrachloro-m-xylene [2]	96.9	30-150		9/16/17 20:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.4	50-150		9/12/17 22:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.9	30-150		9/16/17 20:26
Decachlorobiphenyl [2]	64.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [1]	70.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [2]	65.6	30-150		9/16/17 20:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/11/17 18:49
Decachlorobiphenyl [2]	89.8	30-150		9/11/17 18:49
Tetrachloro-m-xylene [1]	83.6	30-150		9/11/17 18:49
Tetrachloro-m-xylene [2]	77.2	30-150		9/11/17 18:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		9/14/17 17:06
2-Fluorobiphenyl	80.0	30-130		9/14/17 17:06
p-Terphenyl-d14	80.2	30-130		9/14/17 17:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/14/17 17:16
Decachlorobiphenyl [2]	74.0	30-150		9/14/17 17:16
Tetrachloro-m-xylene [1]	95.5	30-150		9/14/17 17:16
Tetrachloro-m-xylene [2]	79.0	30-150		9/14/17 17:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.7	50-150		9/12/17 21:02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.7	30-130		9/14/17 17:35
2-Fluorobiphenyl	83.4	30-130		9/14/17 17:35
p-Terphenyl-d14	81.6	30-130		9/14/17 17:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		9/14/17 17:28
Decachlorobiphenyl [2]	79.1	30-150		9/14/17 17:28
Tetrachloro-m-xylene [1]	104	30-150		9/14/17 17:28
Tetrachloro-m-xylene [2]	79.6	30-150		9/14/17 17:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		9/12/17 21:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185922 - SW-846 3546										
Blank (B185922-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.10*		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8	30-130			
LCS (B185922-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.7	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185922 - SW-846 3546										
LCS Dup (B185922-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Batch B185977 - SW-846 3510C										
Blank (B185977-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*87.6*		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	*85.2*		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	*82.4*		µg/L	100		82.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185977 - SW-846 3510C										
LCS (B185977-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	*92.6*		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*93.5*		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	*98.4*		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	*99.8*		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	*86.0*		µg/L	100		86.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185890 - SW-846 3510C										
Blank (B185890-BLK1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.96*		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.18*		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	*2.02*		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.80*		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185830 - SW-846 3540C										
Blank (B185830-BLK1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.142*		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185867 - SW-846 3540C										
Blank (B185867-BLK1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg wet	0.200		75.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185867 - SW-846 3540C										
Matrix Spike (B185867-MS1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.225		90.2	30-150			
Matrix Spike Dup (B185867-MSD1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.224*		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.228		105	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185892 - SW-846 3510C											
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.0784*		mg/L	0.100		78.4		50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.633	0.075	mg/L	1.00		63.3		60-120			
Surrogate: o-Terphenyl	*0.0709*		mg/L	0.100		70.9		50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.663	0.075	mg/L	1.00		66.3		60-120	4.71	30	
Surrogate: o-Terphenyl	*0.0745*		mg/L	0.100		74.5		50-150			
Batch B185921 - SW-846 3546											
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.52*		mg/Kg wet	3.33		75.6		50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0		60-120			
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.0		50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8		60-120	6.10	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4		50-150			
Matrix Spike (B185921-MS1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	242	56	mg/Kg dry	37.3	261	**-50.1**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*2.44*		mg/Kg dry	3.73		65.3		50-150			
Matrix Spike Dup (B185921-MSD1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	259	56	mg/Kg dry	37.3	261	**-5.38**	*	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	*2.47*		mg/Kg dry	3.73		66.2		50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185594 - % Solids										
Duplicate (B185594-DUP5)		**Source: 17I0112-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt		81.9			3.86	20	
Duplicate (B185594-DUP6)		**Source: 17I0112-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt		83.0			2.19	20	

con-test® ANALYTICAL LABORATORY

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0112

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	ETPH	PAHs
1	WS-AOC12E-SO-5-1	9/5/17	1330		X	S	U	X	X	
2	WS-AOC12E-SO-5-2		1331					X		
3	WS-AOC12E-SO-17-1		1340					X	X	
4	WS-AOC12E-SO-17-2		1341					X		
5	WS-AOC12E-SO-17-3		1342					X		
6	WS-AOC12E-SO-35-1		1403					X	X	
7	WS-AOC12E-SO-35-2		1404					X		X
8	WS-AOC12E-SO-35-3		1405					X		
9	WS-AOC12E-SO-21-1		1400					X		X
10	WS-AOC12E-SO-21-2		1401					X	X	

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature) 9/5/17	Date/Time: 1640
Received by: (signature) 9/5/17	Date/Time: 1640
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	Kepone	PAH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-21-3	9/5/17	1402		X	S	U	X					
12	WS-AOC12E-SO-25-1		1414					X					
13	WS-AOC12E-SO-25-2		1415					X	X				
14	WS-AOC12E-SO-25-3		1416					X					
15	WS-AOC15-SO-1-1		1427					X	X				
16	WS-AOC15-SO-1-2		1428					X					
17	WS-AOC15-SO-1-3		1429					X					
18	WS-AOC12E-SO-42-1		1459					X					
19	WS-AOC12E-SO-42-2		1500					X	X				
20	WS-AOC12E-SO-42-3		1501		↓	↓	↓	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1640
Received by: (signature) 3-3	Date/Time: 9/5/17 1690
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
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Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)	ETPH	PAH	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOCIZE-SO-Dup47	9/5/17	—		X	S	U	X					
22	Equipment Blank-61	↓	1200		X	W	U	X	X	X			
23	Equipment Blank-62	↓	1220		X	W	U	X	X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
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O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
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S = Sulfuric Acid
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T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1440
Received by: (signature) 9/5/17	Date/Time: 1640
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 9/5/17 Time 1640

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.3, 3.7
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	21
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912039.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
17I0112-22
17I0112-23
17I0137-01
17H1672-11

D:\HPCHEM\1\DATA\A091217\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples
17H1672-02
17H1672-03
17H1672-04
17H1672-08
17H1672-12
17H1672-14
17H1672-16
17I0112-13
17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912038.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples
17I0112-06
17I0112-03
17I0112-10
17I0112-15
17I0112-19
17I0297-01
17H1672-01
17H1672-09
17I0112-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17I0112

Laboratory Sample ID(s):

17I0112-01 thru 17I0112-23

Sample Date(s):

09/05/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

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.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/18/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

February 27, 2018

Gary Trombly, Jr.
Department of Energy and Environmental Protection
Storage Tank and PCB Enforcement Unit
79 Elm Street
Hartford, Connecticut 06106

Craig Bobrowiecki
Department of Energy and Environmental Protection
Remediation Division
79 Elm Street
Hartford, Connecticut 06106

Re: Partial Consent Order #COWSPCB 15-001
Soil and Groundwater Report – Parcel B (South)

Dear Messrs. Trombly and Bobrowiecki:

Pursuant to the Partial Consent Order (PCO) between the Commissioner of Energy and Environmental Protection (the "Commissioner") and The United Illuminating Company ("UI"), UI is submitting the Soil and Groundwater Report – Parcel B (South) for your review.

Should you have any question regarding any of the above, please don't hesitate to contact Charles Eves at (203) 926-4632 or (203) 535-7461.

UNITED ILLUMINATING COMPANY

Anthony Marone
President and Chief Executive Officer
United Illuminating Company

Charles Eves
Senior Project Manager
United Illuminating Company

CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

Anthony Marone

Charles Eves

Weston & Sampson

westonandsampson.com

273 Dividend Road
Rocky Hill, CT 06067
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REPORT

South Side Investigation Summary Report

Former English Station Facility
510 Grand Avenue
New Haven, Connecticut

March 2018

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EXECUTIVE SUMMARY

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of the United Illuminating Company (UI), has prepared this Investigation Summary Report for a portion of the Former English Station facility located at 510 Grand Avenue in New Haven, Connecticut (hereinafter referred to as "the Site"). The Site occupies approximately 9-acres of land located south of Grand Avenue in New Haven. The Mill River borders the Site to the east, west and south. UI operated a former electric power plant (English Station) on the property between 1929 and 1992. Vacant buildings associated with English Station are located on Site. See Figure 1 for Site location and Figure 2 for an aerial view.

As a requirement of the change of control from UI to Iberdrola Electric Utility (Final Decision Docket No. 15-07-38), UI is required to investigate and remediate certain environmental conditions of the Site. TRC Companies Inc. has been retained by UI to provide Licensed Environmental Professional (LEP) services associated with investigation and remediation of the Site. Weston & Sampson has been retained by UI to provide Site investigation services. The Site investigation activities were performed in accordance with the Connecticut Department of Energy and Environmental Protection (CT DEEP) Partial Consent Order COWSPCB 15-001 (PCO) and applicable federal and state regulations.

Weston & Sampson performed Site investigation between July and September 2017. The investigation described in this report included the collection of soil, sediment and porous media (concrete, wood and asphalt) samples for laboratory analysis. The investigation was performed in accordance to with TRC's Scope of Study (SOS), English Station, revised July 2017, which was reviewed and approved by the CT DEEP.

To expedite implementation of potential remedial actions, two separate Investigation Summary Reports have been prepared and the reports have been split roughly by parcels. This report applies to the Areas of Concern (AOCs) within and abutting the South Side of the Site as shown on Figure 3. Specifically, this report applies to results for soil, sediment, and porous media for AOC-3, AOC-7 through AOC-11 and AOC-13. Major findings of the investigation for the above AOCs are provided below:

<u>AOC-3 Former Septic Systems</u>

- AOC-3 includes two former septic system locations within the South Side of the Site. Historic maps depict the locations of the historic septic structures; one located on the western side of the Site (Septic West) and one along the eastern side of the Site (Septic East).
- Weston & Sampson advanced soil borings and collected porous media (concrete and asphalt) samples within the area of Septic West and East. Sediment samples were also collected within each structure. Soil impacts require some remediation in the area of the septic structures, but these impacts may be the result of releases not related to the tanks. Testing of sediments within the structures indicates that they should be removed and disposed offsite.

<u>AOC-7 Former Waste Oil Aboveground Storage Tank (AST) / Oil Pump Room Area</u>

- AOC-7 is located within the southeastern corner of the Site. A former waste oil AST was located adjacent to the southeastern corner of the English Station building. An oil pump house that serviced the building boiler system was also located in this area. Numerous soil borings were advanced throughout AOC-7. Porous media (concrete and asphalt) samples were also collected at boring locations and from concrete pads and pipe trenches. Sediment samples were also collected from manhole structures and pipe trenches.
- Historical and recent data have found evidence of PCB and ETPH releases to this area of the

Site. Remedial actions are anticipated for the PCB and petroleum impacts identified within AOC-7.

AOC-8 Former Fuel Oil ASTs

- AOC-8 is located within the southern portion of the Site. One 50,000-gallon No. 6 fuel oil AST was previously located within a concrete containment berm located in the far southern end of the Site. To the west of the former No. 6 fuel oil tank, there were two 5,000-gallon No. 2 fuel oil ASTs that were formerly located in concrete cradles.
- Weston & Sampson advanced soil borings, collected surficial soil samples, and porous media samples (concrete and asphalt) throughout AOC-8. Sediment samples were also collected from pipe trench and sump structures within the AOC. PCB releases were identified, and remediation of PCB impacts to soil, sediment and porous media is anticipated. Petroleum hydrocarbon impacts were not identified in soil, but releases to sediments within the trenches were identified and will also require remediation.

AOC-9: Transformer Areas

- AOC-9 is located within the southwestern portion of the Site, to the west of the English Station building. Multiple historic transformers and capacitors were located in this area. Numerous soil borings were advanced throughout AOC-9 and porous media (concrete and asphalt) samples were also collected at boring locations and from concrete pads and pipe trenches. Sediment samples were also collected from manhole structures and pipe trenches throughout the AOC.
- Historical and current data have identified releases of PCBs and petroleum hydrocarbons from historical Site operations. As such, these impacts to soil and porous media, as well as sediments, will require remediation.

AOC -10 Former Interior Chemical Storage Areas

- AOC-10 is comprised of outbuildings located within the southwestern and southern portions of the Site associated with former interior chemical storage. Weston & Sampson advanced soil borings, collected numerous porous media (concrete) samples, and one sediment sample within AOC-10.
- Limited impacts to shallow soil beneath the buildings were identified. However, the concrete of these buildings was typically impacted with PCBs and demolition and removal of the concrete and limited soil from beneath the structures is anticipated to remediate these impacts. Identified impacts to concrete and limited impacts to soil will require remediation.

AOC -11 On-Site Fill Material: Evaluation of Tracking

- AOC-11 is fill material located throughout the Site. The fill material has been adequately characterized by others during previous investigatory efforts. This investigation included evaluation of tracking across pads/structures not captured by other AOCs. Weston & Sampson collected 3 porous media (concrete) samples from concrete pad structure P12 located in the southwestern portion of the Site. There was no sediment observed within the manholes of this structure and therefore, samples were not collected.
- Results of the investigation indicate surface concrete at structure P12 is not impacted with PCBs. In fact, data collected across the Site indicate that tracking of PCBs and other COCs across the property is not seen as a potential release mechanism. Additional investigation of the P12 structure within AOC-11 is not required.

AOC -13 Former Wastewater Treatment System

- AOC-13 is located within the southeastern portion of the Site, east of the English Station building and includes remnants of a former wastewater treatment system (primarily concrete pads). The operational history of this former treatment system is not well documented in historic reports. Weston & Sampson advanced soil borings and collected porous media samples (asphalt or concrete) throughout AOC-13. Sediment samples were also collected from pipe trenches in this area.
- Field screening of soil samples and results from the laboratory analysis of the soil samples indicate that releases of petroleum hydrocarbons have occurred during historical Site operations and these impacts will require remediation. PCBs were detected in shallow and deeper soil also indicating that releases have occurred during historical Site operations that will require remediation. Analysis of sediment samples identified PCBs and ETPH in sediments collected from trenches within the area that are likely from releases during historical Site operations and will require remediation as well.

1.0 INTRODUCTION

Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this Investigation Summary Report which includes a detailed description of investigation activities, soil, sediment, and porous media data generated, and a summary discussion of remediation options for environmental impacts on the South Side of the parcel 510 Grand Avenue in New Haven, Connecticut also referred to as "English Station" (hereinafter referred to as "the Site"). Figure 1 provides a Site Locus map and Figure 2 is an aerial map showing the area covered under this South Side Investigation Summary Report.

In preparation of this report, Weston & Sampson conducted sampling of soil, sediment, and porous media samples for Areas of Concern (AOCs) located on the South Side of the Site and abutting AOCs as prescribed in the SOS prepared for UI by TRC (attached as Appendix A). The SOS was prepared for UI to execute its obligations under Partial Consent Order (PCO) COWSPCB 15-001, issued by the Connecticut Department of Energy & Environmental Protection (CT DEEP). The CT DEEP reviewed and approved the scope of work in the SOS and TRC oversaw all investigation activities performed by Weston & Sampson.

Weston & Sampson investigations summarized in this report were performed between July and September 2017. The investigation activities described in this report are limited to AOC-3, AOC-7 through AOC-11 and AOC-13. The locations of these AOCs are shown on Figure 3. Other AOCs not discussed in this report are covered in the North Side Investigation Summary Report. The results from the groundwater investigation performed will be discussed in the Groundwater Investigation Summary Report.

Samples collected were analyzed for potential chemicals of concern (COC) at the Site including polychlorinated biphenyls (PCBs), Semi-Volatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and Connecticut Remediation Standard Regulations (RSR) 15 Metals. Selected analyses for samples collected were determined based on TRC's SOS and field observations made by Weston & Sampson. Select samples were analyzed for leachable concentrations of contaminants using the Synthetic Precipitation Leachate Procedure (SPLP).

The investigation activities were conducted to further characterize areas of the Site not previously investigated, to identify other potential sources of impacts, and to delineate the horizontal and vertical extents of previously identified impacts to the Site. Analytical results were compared to applicable Connecticut remedial criteria found in Section 22a-133k-1 through -3, inclusive, of the RSRs of the Regulations of Connecticut State Agencies (RCSA). Because federal PCB regulations are also applicable, remedial standards contained within Chapter 40 of the Code of Federal Regulations Part 761 (40 CFR Part 761) are applicable. However, for the purposes of this report, the characterization and delineation of Site impacts are compared to criteria from the RSRs. Further discussion and application of the federal PCB regulations found in 40 CFR Part 761 will be included in the remedial action plans to be developed for the Site.

1.1 Location and Description

The Site is located at 510 Grand Avenue in New Haven, Connecticut and is comprised of approximately 9-acres of land located on a man-made island (Ball Island) situated within the Mill River which runs north to south into the Long Island Sound. The Site is comprised of two parcels, Parcels A and B (see Figure 2 for property and parcel boundaries) which are owned by two separate entities. The island is retained via steel bulkhead which encompasses the Site to the east, west and south. The Site can be further located through the following coordinates:

UTM Coordinates:	675239.9 meters North
	4574883.6 meters East
	Zone 18
Latitude/Longitude:	41° 18' 23" North
	72° 54' 24" West

The South Side of the Site, as indicated on Figure 2, is the subject of this report and covers an area of approximately 5.32 acres of land located at the southern tip of Ball Island. Several structures currently stand within this portion of the Site, including the former English Station power generating plant and smaller outbuildings. Of the 5.32 acres of land in the southern portion of the Site, the footprint of the English Station building encompasses approximately 2.29 acres. Other buildings present in this area of the Site include a former assembly hall, a storage building, and what was referred to as the "foam house".

The northern portion of the Site is discussed in a separate Investigation Summary Report. The North Side of the Site covers an area of approximately 3.58 acres and is developed with a two-story former electrical generating plant (also called Station B). In addition to Station B, the North Side of the Site also includes former locations of concern including a coal bin storage area, a stormwater surge basin, cable houses and a subsurface cooling water tunnel which historically operated on Site.

1.2 Site History

As indicated in the SOS prepared by TRC, the Site was first occupied by Enos S. Kimberly and Company in the late 1880s and was utilized as a coal and lumber facility. In 1890, New Haven Electric Company purchased the Site and began the construction of Station B. As part of this construction, Ball Island's footprint was expanded via the filling of the portion of the Mill River south of the Site. Station B reportedly operated as a coal-fired power plant until 1903.

UI purchased the property in 1914 and began the construction of the English Station Power Plant in 1924. The initial construction consisted of a coal-fired, low-pressure boiler and turbine areas which were completed in 1929. Sometime between 1948 and 1952, two additional coal fired, high-pressure boilers and turbines were constructed at the southern end of English Station. At that time, Ball Island was further expanded to the south by the additional filling of the Mill River. English Station power plant operated as a coal-fired power plant until sometime in the mid-1950s when the plant was converted into an oil-fired plant. English Station then operated as an oil-fired plant until 1992 when it was placed on deactivated

reserve status.

In 2000, UI transferred the Site to Quinnipiac Energy, LLC (QE). At that time, an escrow of $1,900,000 was established by UI to support environmental investigation and cleanup of the Site. From 2000 through 2008, Advanced Environmental Interface, Inc. (AEI) performed environmental assessment activities on behalf of QE. Assessment activities were ceased in 2008, when the escrow funds were depleted. In 2006, prior to depleting the escrow funds, QE filed for bankruptcy and divided the property into two parcels (Parcels A and B as shown on Figure 2). Subsequently, QE sold Parcel A to Evergreen and Parcel B to ASNAT.

In 2011, the new Site owners (ASNAT and Evergreen) contracted Grant Mackay Company (Grant Mackay) and Classic Environmental Inc. (Classic Environmental) to demolish the existing structures on-Site with the intention of generating enough money through selling scrap-metal steel to fund the future environmental investigation and eventual cleanup of the Site. The initial focus of this project was at the main English Station power plant building. In 2012, CT DEEP conducted an on-Site inspection which concluded that there was potential for tracking and spreading PCB contamination from source areas to other uncontaminated areas of the Site. In February 2012, CT DEEP issued a Cease and Desist Order (CDOWSUST 12-001) which terminated all on-Site investigation and remedial activities. The Site has remained dormant until the performance of the investigation summarized within this report and others.

1.3 Current Site Conditions

In July 2017, Weston & Sampson was granted Site access to observe current on-Site conditions. The Site is primarily improved with decaying impervious surfaces (asphalt and concrete), as evident by vegetative growth throughout the Site. Brushy vegetation had been allowed to grow in some areas of the Site and the brush was removed from above the ground surface only to allow access to certain areas. The brush removed was collected on poly-sheeting and not allowed to contact potentially PCB-impacted ground surfaces. The brush was then disposed of as clean vegetative debris and the poly-sheeting was disposed as PCB Remediation Waste.

Several large and small debris piles (scrap metal, wood, etc.) were noted throughout the Site and some had to be moved to allow access to investigation areas. None of this debris was removed from the Site and was moved as little as required to gain access to investigation locations.

Directly in front of the English Station power plant building (north of the building) were field trailers, Conex boxes, truck trailers, portable restrooms, an excavator and black contractor bags with asbestos containing material (ACM). Evidence of oil staining on the asphalt directly in front of the English Station power plant was also observed. The equipment and materials observed in front of the power plant building, including those that were oil-stained, have subsequently been properly decontaminated and removed from the Site or properly disposed of by others under contract to UI as prescribed in a work plan approved by CT DEEP.

1.4 Historical Site Filling

On March 27, 2003, the CT DEEP approved a “Widespread Polluted Fill Variance” for the Site based on an application submitted on behalf of Quinnipiac Energy, LLC. The application noted that the Site

subsurface includes widespread polluted fill from historic dredging operations and that:

- Sediments impacted by historical industrial use along the Mill River had been used to construct Ball Island. Prior to 1886, there were sand bars present within the current footprint of Ball Island and that the grade had been raised enough to allow for commercial use after 1886. Grades were subsequently raised to allow for construction of Station B on the northern portion of the Site in 1901 and that fill was placed on the southern portion of the Site to allow for construction of the English Station Power Generation Facility by 1935. Construction of final grades at the Site using sediments appears to have been completed by 1953.
- Sediments in the Mill River had been impacted by historical industrial operations which included coal gasification, storage and burning of coal in electrical generating facilities, metal processing, and lumber storage. These activities had impacted sediment within the Mill River with petroleum hydrocarbons and associated polyaromatic hydrocarbons (PAHs), and metals.
- These impacted sediments were used to construct Ball Island above the mean low water level in the Mill River and placed throughout the Site contained within a steel bulkhead.

The CT DEEP approval of the Widespread Polluted Fill Variance application applies to the entire English Station Site and is based on meeting the following provisions of RCSA 22a-133k-2(f)(1):

- (A) geographically extensive polluted fill is present at such parcel and at other parcels near the subject parcel; There have been no changes in site conditions that might change the Approval;
- (B) such fill is not polluted with volatile organic substances; Weston & Sampson sampling efforts did not identify additional VOC impacts at the Site and there was nothing found that might change the Approval;
- (C) such fill is not affecting and will not affect the quality of an existing or potential public water supply resource or an existing private drinking water supply; There have been no changes in site conditions that might change the Approval;
- (D) the concentration of each substance in such fill is consistent with subsection (b) of this section; There have been no changes in site conditions that might change the Approval;
- (E) the placement of such fill was not prohibited by law at the time of placement. There have been no changes in site conditions that might change the Approval; and
- (c)… whether the person requesting the variance is affiliated with any person responsible for such placement through any direct or indirect familial relationship or any contractual, corporate or financial relationship other than that by which such person's interest in such parcel is to be conveyed or financed; No change from original application.

No changes in Site conditions were observed during the investigation that might affect the applicability and use of the variance and no changes in conditions around the Site (e.g., addition of groundwater supply wells) have occurred. Thus, dredged sediments impacted with metals, PAHs, and total petroleum hydrocarbons that are believed to be present in the fill materials and not because of releases at the Site after the fill was placed are subject to the approved variance request. As such, the pollutant mobility criteria (PMC) are not applicable to these chemicals. However, remediation to address direct

exposure criteria (DEC) is still required.

Weston & Sampson investigation data are discussed in Section 4. As detailed in Section 4, results of the investigation identified PAHs, ETPH, and metals within the AOCs discussed in this report and that some of these analytical results exceeded remedial criteria (i.e., PMC and DEC). As PAHs, ETPH and metals are ubiquitous in fill material at the Site, delineation of exceedances is not considered feasible. Site-wide fill material will be remediated in accordance with the Fill Variance.

1.5 Investigation Objectives

The purpose of this Investigation Summary Report is to present the findings of Weston & Sampson's Site investigation. This Report includes the following items which will be discussed and evaluated:

1. Detailed description of the investigation activities performed.
2. Evaluation relative to the nature and extent of on-Site soil, sediment, and porous media contamination within the AOCs.
3. Update the Conceptual Site Model for each AOC.
4. An evaluation of the Data Quality Objectives (DQOs) to determine if the data obtained from on-Site investigations meet the requirements of the CT DEEP Laboratory Quality Assurance and Quality Control Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Guidance Document dated May 2009 and revised in December 2010 as well as the Revised SOS prepared by TRC.
5. A preliminary evaluation of remedial action alternatives that address on-Site impacts relative to future industrial/commercial (I/C) Site use. Remedial action alternatives are evaluated based on COCs determined within each AOC and the applicable regulations which include:
    a. I/C Direct Exposure Criteria (I/C DEC).
    b. Groundwater Classification "B" Pollution Mobility Criteria (GB PMC)

1.6 Pre-Investigation Activities

In preparation for the Site investigation, Weston & Sampson contracted ACS Underground Solutions from Redding, Connecticut to perform ground penetrating radar (GPR) surveys throughout the Site to locate on-Site utilities and other subsurface structures. In addition to utilities, GPR was also used to locate tie-backs and deadmen that are used to support Ball Island's bulkhead. Obstructions and utilities were marked out utilizing spray paint and flagging, where applicable. The focus of the GPR survey was conducted in areas where soil borings were planned to be advanced. Additional Site utility location was performed by UI in support of the investigation. Call Before You Dig (CBYD) was also notified in advance of the investigation activities to be performed by the drilling contractors.

Prior to the commencement of environmental sampling and generating investigation derived waste (IDW), Weston & Sampson had an anti-tracking pad and IDW drum storage area constructed. An anti-tracking pad was installed within the North Side of the Site between AOC-2 and AOC-12N. The 12-foot-wide by 50-foot-long anti-tracking pad was constructed utilizing synthetic geofabric covered with

angular stone (ASTM C-33 size No 2/3). All equipment that accessed the Site was decontaminated on the anti-tracking pad following procedures specified in 40 CFR Part 761 in §761.79(c)(2)(i) or (ii). The decontamination solvent used was a commercial-grade terpene hydrocarbon solution containing greater than ninety percent terpene hydrocarbon.

The drum storage area was constructed utilizing polyethylene sheeting and orange construction fencing and an M_L mark was placed on the fencing. Open top and Department of Transportation (DOT)-rated 55-gallon drums were utilized to store solid IDW on Site which included personal protective equipment (PPE) and all soil wastes generated from the soil investigation. Closed top and DOT-rated 55-gallon drums were utilized to store all liquid decontamination wastes generated and water removed from the cooling water tunnel during sampling. All drums were properly labeled with M_L marks prior to off-Site disposal arranged for by UI.

Areas of previously identified Significant Environmental Hazards (SEHs) were marked at the Site and barriers established around the perimeters of each SEH area. These demarcation boundaries had to be maintained and reestablished during the investigation and new areas were marked as identified during the course of the investigation.

Anti-tracking measures employed during the soil investigation included removal of dirt from sampling equipment (e.g., treads on drill rig) prior to movement between boring locations. Poly sheeting was installed over areas with oil impacts or known high concentrations of COCs in surficial materials. The poly sheeting was removed and stored as PCB wastes following use. Overall, the investigation of soil was performed by starting at AOCs with lesser impacts to soil and then moving to more heavily impacted AOCs.

2.0 FIELD WORK METHODOLOGY

Weston & Sampson personnel collected environmental media samples including soil and sediment. Porous media samples, including concrete, asphalt, and wood, were also collected to assess the potential for on-Site tracking and deposition of PCBs. Sample collection was performed in accordance with the SOS prepared by TRC and approved by the CT DEEP and sampling activities were conducted under the supervision of an inspector from TRC. Laboratory-provided containers were used to store samples collected and the samples were placed into a cooler with ice upon sample collection. Where VOC analysis was not conducted, samples were homogenized utilizing dedicated mixing spoons and aluminum foil. To reduce the potential for any tracking of contamination, investigation work commenced in areas with less contamination (typically found on the north side of the property) and progressed toward areas previously identified as having more significant impacts.

2.1 Soil Sampling

On-Site soil sampling was performed primarily via GeoProbe® with some surficial soil samples being collected via disposable spoons and/or decontaminated shovels/trowels. Deeper soils were assessed via direct push GeoProbe® Macro-Core methodology. Soil samples were collected continuously, from the ground surface to depths up to 20 feet below ground surface (bgs). A five-foot dedicated acetate Macro-Core® liner was utilized to collect samples. Each soil core was logged with respect to its soil characteristics (i.e., color, grain size, moisture content, fill material, etc.) and were noted for any indications of potential environmental impacts. Each soil core was field screened using a Photo-Ionization Detector (PID) for total volatile organic vapors (TVOVs). At sample locations where VOC analysis was to be performed, the sample was collected from the location that exhibited the highest concentration of TVOVs, and/or that exhibited signs of environmental impacts. In the absence of obvious environmental impacts VOC samples were collected from the water table interface.

Any excess soil, acetate liners, PPE, and polyethylene sheeting generated from soil boring activities were stored within 55-gallon drums properly labeled with M_L marks. All bore holes were backfilled using S-2 silica filtration sand and were compacted as necessary.

Where applicable, the following decontamination procedure, performed in accordance with the requirements of 40 CFR Part 761 Subpart S – Double Wash/Rinse Method for Decontaminating Non-Porous Surfaces, were employed to limit the potential for cross contamination between sampling locations. Outer steel casing of each GeoProbe® and other metal sampling equipment used for sampling were decontaminated between each sample location utilizing the double wash/rinse methodology as follows:

1. Rinse with aqueous detergent solution.
2. Rinse with deionized water.
3. Rinse with aqueous detergent solution.
4. Rinse with deionized water.

All soil sample locations, sample collection depths, and analytical parameters were determined from TRC's SOS, revised in July 2017 and approved by CT DEEP. Minor alterations to the sampling plan were

made based upon observations, in the field which included obstructions, refusal and indications of other potential environmental impacts discovered during investigation.

A soil boring log was created for each GeoProbe® boring conducted on Site. Soil boring logs are included in Appendix B of this report.

2.2 Porous Media Sampling

As part of this investigation, porous media (concrete, wood and asphalt) samples were collected and analyzed for PCBs. Concrete and asphalt samples were collected following the Environmental Protection Agency (EPA) standard operating procedure (SOP) for sampling porous media (Revision 4) using a rotary hammer drill with 1" drill bits. The drill was advanced ½" into the porous media surface and the associated dust/chips generated from the holes were collected for analysis. Weston & Sampson utilized wooden tongue depressors to collect porous media samples from the drill holes. The depressors were disposed of after a one-time use.

Drill bits and other metal sampling equipment were decontaminated between each location using the following methodology in accordance with the EPA SOP referenced above:

1. Rinse with aqueous detergent solution.
2. Rinse with deionized water.
3. Rinse with hexane.
4. Rinse with deionized water.

In addition to the procedures described above, a swab with hexane was included in the decontamination of drill bits and other equipment used in porous media sampling equipment because this is prescribed in the EPA SOP. The PVC pipe was not reused, and the sections of pipe were disposed with waste soils generated during the investigation.

2.3 Sediment Sampling

Sediment sampling was conducted from various AOCs as described above with the addition of the following procedures. Sediment samples consisting of very fine materials were dewatered as necessary using dedicated filters for each sample. Any decanting or straining of excess water was done in a method and manner to maintain the amount of fines present in the sediment.

Collection of sediment samples was completed utilizing a ponar dredge claw and dedicated ¼" PVC piping. After accessing the subgrade structures, the ponar dredge claw was dropped into the structure and, if sediments were collected using this method, a sample was collected, placed in a dedicated sample jar, and analyzed for parameters as specified in the TRC SOS. If sediments could not be collected with the ponar, a section of ¼" PVC piping was advanced into the structure. Samples collected within the PVC was done via the "straw" sampling method. Sediment was collected with the PVC by blocking the top end of the PVC piping as the bottom end is advanced into sediment. This allowed the PVC to retain sediment from within the piping and brought back to the surface where it could be decanted over filter material and a sample collected. Not all of the subgrade structures were determined to contain sediments. However, the two sampling methods described above were employed at each

location prior to determining that a sample could not be collected.

Sections of PVC pipe were not reused and were disposed with other solid PCB wastes generated during the investigation. The Ponar dredge claw was decontaminated using the following methodology:

1. Rinse with aqueous detergent solution.
2. Rinse with deionized water.
3. Rinse with aqueous detergent solution.
4. Rinse with deionized water.

All excess sediment generated was placed directly into an open top 55-gallon drum properly labeled with a M_L mark.

2.4 Sample Nomenclature

Sample nomenclature was applied as described in TRC's SOS. Samples collected were identified first with a distinguishable letter to show what company collected the sample (i.e., WS for Weston & Sampson), followed by the AOC identification number (AOC numbers and boundaries were predetermined by figures provided by TRC), followed by a matrix code to note the sample media (i.e., SO for soil, AS for asphalt, CO for concrete, and SED for sediment). After the sample media ID, a number was used to identify sample location within that AOC. Where applicable, a dash (-) followed by an additional number was applied to display vertical sample depth. At locations where both porous media and soil samples were collected, the porous media sample number matches the soil boring number and it is the matrix code that distinguishes them from one another.

3.0 DATA QUALITY

The following provides a discussion of the data quality for soil, sediment, and porous media sample results. As described below, DQOs for the frequency of the collection and analysis of field and laboratory QA/QC samples were met. In addition, none of the data reported in this Investigation Summary Report exceeded applicable acceptance criteria in a manner that would require that the data be rejected. Thus, the data reported are acceptable for the purposes of this investigation which were the characterization of soil, sediments, and porous materials and the delineation of impacts to these environmental media.

3.1 Data Quality Objectives

For the purposes of this Site investigation, DQOs were established for the evaluation of the accuracy, precision and representativeness of the data generated. These DQOs included the collection of field quality assurance/quality control (QA/QC) samples and the analysis of these field samples and additional laboratory QA/QC samples. The overall quality assurance objective for laboratory analysis of samples was to provide a laboratory QA/QC program that is sufficient to ensure that data quality objectives are achieved. Analytical data for the Site was generated following the Reasonable Confidence Protocols (RCP) (CT DEEP, 2010b).

Each of the analytical data reports were assessed to determine the quality of the data as received. The following summarizes the DQA:

- All data were reported following the CT DEEP RCP. For each analytical method, narration was provided for each analysis or QA/QC sample for which results fell outside of acceptance criteria.
- Method Blanks, trip blanks, and other QA/QC samples used to measure potential contamination were generally free of analytes. Those analytes detected were not detected in samples. Thus, contamination of samples is not an issue with these data and no positive bias in the data set is indicated.
- Laboratory Control Samples and Laboratory Control Sample Duplicates (LCS/LCSDs) were analyzed with each analytical data batch. In general, the recoveries of spiked compounds and the relative percent difference (RPD) between duplicate samples were within acceptance criteria. No trends in the data for LCS/LCSD samples were observed that would indicate a bias in the data set.
- Matrix Spike Samples and Matric Spike Sample Duplicates (MS/MSDs) were analyzed with each analytical data batch. In general, the recoveries of spiked compounds and the RPD between duplicate samples were within acceptance criteria. No trends in the data for MS/MSD samples were observed that would indicate a bias in the data set.
- Samples were received under chain-of-custody protocols and any discrepancies in the documentation were promptly resolved. Samples were received at the appropriate temperature and properly preserved. Samples were extracted and analyzed within specified holding times.
- Required reporting limits were specified on the chain-of-custody forms. Reporting limits were

generally achieved. Some samples contained target analytes at concentrations high enough to require dilution and the reporting limits for other analytes did not always meet requested reporting limits under these circumstances. The interpretation of these data has been modified as needed to account for reporting limits that may exceed remedial criteria. No bias in the overall data set is seen.

3.2 QA/QC Samples and Data Evaluation

QA/QC samples for evaluation of data involve both field-collected samples and laboratory QA/QC. Field QA/QC samples were collected at the frequency prescribed in the SOS prepared by TRC. In addition, a narrative was completed by ConTest Laboratories (ConTest) of East Longmeadow, Massachusetts for each of the analytical data batches. This narrative provides relevant comments, data anomalies and non-conformances with laboratory-related QA/QC. These narratives can be found within each individual laboratory report and work order. All laboratory reports are included in Appendix C.

3.2.1 Precision

Precision is a measurement of the reproducibility of analytical data through analysis of duplicate samples. According to the CT DEEP Laboratory QA/QC Guidance RCP Guidance Document, the precision of the data is measured by the following calculation to determine the RPD:

$$RPD = \frac{|A-B|}{((A+B)/2)} \times 100$$

Where:

A = Analytical results from the first duplicate measurement
B = Analytical results from the second duplicate measurement.

For this investigation, the goal for RPD was less than or equal to 50% for solid samples, and less than or equal to 30% for aqueous samples. Duplicate samples can be found adjacent to their parent sample within the data summary tables for each AOC.

Field duplicates were collected during sampling and these data are used to evaluate effects of field sampling and laboratory analytical procedures on data reproducibility. Additional duplicate samples are analyzed by the laboratory and include matrix spike/matrix spike duplicates (MS/MSDs) and laboratory control spikes/laboratory control spike duplicates (LCS/LCSDs). The MS/MSDs are used to evaluate the effect of Site matrices and laboratory procedures on the reproducibility of analytical data. The LCS/LCSD samples are used to evaluate the effect of laboratory procedures only on data precision.

3.2.2 Accuracy

Accuracy is a measurement of the analytical data versus known concentrations. For this investigation program, accuracy is evaluated using spiked samples which include MS/MSDs and LCS/LCSDs. The MS/MSDs are used to evaluate the effect of Site matrices and laboratory procedures on the accuracy of analytical data. The LCS/LCSD samples are used to evaluate the effect of laboratory procedures only on data accuracy.

3.2.3 Representativeness

Data representativeness is a determination of the data collected and the ability to use the data set to

characterize the Site.

3.3 Field QA/QC

The following is a description of the field QA/QC samples collected to date.

3.3.1 Equipment Blanks

The purpose of the collection of equipment blanks is to assess the adequacy of the decontamination process conducted on Site. Additionally, it is used to assess the potential contamination from dedicated sampling items like the Macro-Core® acetate liners. Equipment blanks were collected using laboratory-provided, high performance liquid chromatography grade ASTM Type II water being poured over sampling equipment collected into a laboratory provided container.

For purposes of this investigation, equipment blanks were collected each day samples were collected, for each media type and parameter analyzed for. In total 71 equipment blanks were collected throughout the entirety of the project (North Side and South Side investigations) completed to date. Equipment blanks were collected from the following sampling devices:

1. Ponar Dredge Claw
2. ¼" PVC
3. Macro Core® Acetate Liners
4. 1" Rotary Hammer Drill Bit
5. Breaker Bar

Analytes detected in equipment blanks are compared to samples associated with that equipment blank to determine if contamination is present in a sample because of improper equipment decontamination.

A review of equipment blank data obtained reveals that detections of COCs were found in two of the equipment blank samples submitted (EB-23 and EB-67). The analytes detected in the equipment blanks were not found in sample analyses so there is no effect on data quality.

3.3.2 Field Duplicates

Field duplicates were collected during the on-Site investigation to assess accuracy of sample methodology and laboratory analysis. Field duplicates were collected as replicate or split samples and submitted to the laboratory without indication to the duplicate's partner sample. For the purposes of this investigation, field duplicates were collected per twenty samples collected, for each sample media, for each parameter analyzed as prescribed in CT DEEP Laboratory QA/QC and DQA/DUE Evaluation Guidance Document, Appendix B-3 (revised December 2010).

Duplicate samples can be found adjacent to their parent sample within the data summary tables. The following summarizes the numbers of duplicate samples collected by analysis:

- PCBs, 1215 soil samples with 60 duplicates, 89 sediment samples with 4 duplicates, and 426 porous media samples with 21 duplicates.
- ETPH, 32 sediment samples with 1 duplicate and 242 soil samples with 12 duplicates.
- VOCs, 22 sediment samples with 1 duplicate.
- Metals, 22 sediment samples with 1 duplicate and 27 soil samples with 2 duplicates.
- SVOCs, 20 sediment samples with 1 duplicate and 18 soil samples with 1 duplicate.
- PAHs, 12 sediment samples with 1 duplicate and 18 soil samples with 1 duplicate.

Duplicate samples were collected at a frequency of approximately 1 duplicate for every 20 samples collected. The RPD for the sample results were typically less than 50% and no systematic bias was indicated by the results. Thus, the duplicate sample results indicate that the analytical data are acceptable.

3.3.3 Matrix Spike and Matrix Spike Duplicate (MS/MSD)

The purpose of MS/MSD samples is to determine if the sample matrix effects accuracy and bias in the analytical results. MS/MSD samples are collected as duplicate or split samples, the pair is then spiked by the laboratory with a known quantity of target analytes. Through MS/MSD analysis one can evaluate precision and accuracy of laboratory analysis methodology.

MS/MSD samples were collected per 20 samples collected, per sample media, per parameter analyzed for as prescribed in CT DEEP Laboratory QA/QC and DQA/DUE Evaluation Guidance Document, Appendix B-3 (revised December 2010) and the TRC SOS.

Like field duplicate samples, MS/MSDs were compared to their partner samples to determine precious of sampling, handling, shipping, storage, preparation and analysis. Precision of the data was measured by evaluating the sample's RDP (see Field Duplicate section above).

The goal RDP was less than or equal to 50% for solid samples, and less than or equal to 30% for aqueous samples. The following summarizes the numbers of duplicate samples collected by analysis:

- PCBs, 1215 soil samples with 60 MS/MSDs, 89 sediment samples with 4 MS/MSDs, and 426 porous media samples with 21 MS/MSDs.
- ETPH, 32 sediment samples with 1 MS/MSD and 242 soil samples with 12 MS/MSDs.
- VOCs, 22 sediment samples with 1 MS/MSD.
- Metals, 22 sediment samples with 1 MS/MSD and 27 soil samples with 2 MS/MSDs.
- SVOCs, 20 sediment samples with 1 MS/MSD and 18 soil samples with 1 MS/MSD.
- PAHs, 12 sediment samples with 1 MS/MSD and 18 soil samples with 1.

MS/MSD samples were collected at a frequency of approximately 1 duplicate for every 20 samples collected. The RPD for the sample results were typically less than 50% and spike recoveries were within lab specific limits. No systematic bias was indicated by the results for the MS/MSDs. Thus, the MS/MSD sample results indicate that the analytical data are acceptable.

3.3.4 Laboratory Control Spike and Laboratory Control Spike Duplicate (LCS/LCSD)

The purpose of LCS/LCSD samples is to determine if the laboratory procedures effect accuracy and bias in the analytical results. LCS/LCSD samples are is prepared by the laboratory by spiking a blank matrix with a known quantity of target analytes. Through LCS/LCSD analysis one can evaluate precision and accuracy of laboratory analysis methodology.

LCS/LCSD samples were analyzed with each analytical batch which did not exceed 20 samples, per sample media, per parameter analyzed for as prescribed in CT DEEP Laboratory QA/QC and DQA/DUE Evaluation Guidance Document, Appendix B-3 (revised December 2010).

Like the other duplicates, LCS results were compared to its partner LCSD to determine accuracy and

precision of the analysis. Precision of the data was measured by evaluating the sample's RPD and accuracy was measured by comparison to the know value. Accuracy and precision limits for LCS/LCSD samples are established by the analytical laboratory.

LCS/LCSD samples were analyzed at the required frequency and the accuracy and RPDs were typically within laboratory established acceptance criteria and no systematic bias in the date are indicated. Thus, the LCS/LCSD sample results indicate that the analytical data are acceptable.

3.3.5 Trip Blanks

Trip blanks are laboratory provided sample containers that have been filled with analyte free reagent (water, methanol, etc.) that are held with samples collected. The purpose of the trip blank is to assess if sample containers may be releasing contamination during sample transportation and storage. For the purposes of this investigation trip blanks were collected and submitted for analysis whenever VOC soil samples were collected. Trip blanks accompanied VOC soil samples inside the same cooler. Trip blank vials submitted for analysis consisted of one methanol 40milli liter (mL) vial, and two deionized water 40mL vials. No COCs were detected in the trip blanks and no bias in the data are indicated.

3.3.6 Temperature Blanks

Temperature blanks are used to determine that proper preservation of samples has been maintained during sample storage and shipment. Temperature blanks must be 4° Celsius +/- 2° to demonstrate preservation of submitted samples. All temperatures noted on the chains- of-custody upon sample receipt were within this acceptable range. Thus, no biases in the data are indicated.

3.4 DQA/DUE Conclusions

QA/QC samples were collected at the frequencies established in the DQOs for the site. Analysis of these QA/QC samples were generally within established acceptance criteria. For those QA/QC samples that did exceed acceptance criteria, no systematic bias was indicated. Thus, the data collected during this field investigation are considered to be acceptable for their intended purpose which is characterization of the Site.

4.0 INVESTIGATION RESULTS

Weston & Sampson performed Site investigation activities between July and September 2017. The investigation included the collection of soil, sediment and porous media (concrete, wood and asphalt) samples for laboratory analysis. The investigation was performed in accordance to with TRC's SOS, English Station, October 2016 and revised July 2017, which was reviewed and approved by the DEEP. For further historical details please see TRC's SOS which is attached electronically in Appendix A.

In this Section, the following is provided for each AOC:

1) Conceptual Site Model (CSM) developed for each AOC prior to sampling;
2) Sampling performed within each AOC to delineate impacts;
3) Evaluation of the delineation of impacts within each AOC; and
4) Evaluation of the CSM based upon most recent sampling data.

Generally, the sampling was conducted as indicated in TRC's SOS and sample parameters and depths were followed. However, modifications to the sampling program in the SOS were made based upon field observations and prescribed sample collection depths may have been changed. Additionally, at some locations where refusal was encountered, the original prescribed sample total may have been reduced because the prescribed sample depth could not be reached. It is noted that concrete obstructions up to 24-inches thick were penetrated to collect samples beneath the concrete so occasions where refusal limited collection of additional samples are limited.

The 2017 investigation sample locations are provided on Figures 4 through 12 along with historical sample locations. Interpretation of sample results at each soil boring location are provided in the same manner as that which was shown in the TRC SOS. Specifically, each soil boring location has color-coding indicating the sample result for any analytical parameter collected at that boring location. This data presentation gives a representation of the extent of impacts to the media sampled in the horizontal. Multiple figures are provided for each AOC to depict the depths of impacts identified and to provide information regarding vertical delineation. South Side data interpretation is provided in Figures 12-1 through 12-3.

A summary of analytical results is provided in Tables 1 through 7. Porous media sample results at each location where they were collected are included with the soil data at the same location. Grouping data in this manner allows for an evaluation of impacts to porous media and soil at each location in the vertical.

Soil boring logs for locations included in this report are provided electronically in Appendix B. Laboratory analytical reports for data included in this report are provided electronically in Appendix C.

4.1 Investigation Goals

The goals of the investigation program were to characterize areas of the Site where data gaps exist and to delineate the extent of releases to the environment. Characterization of impacts to soil, sediments, and/or porous media were performed within AOC-3, AOC-7 through AOC-11 and AOC-13. Sampling within these areas was performed on grid patterns with multi-depth sampling and for analytical

parameters specified in the TRC SOS. Sampling was also performed to delineate the extent of releases or the effectiveness of previous remedial efforts. Extensive sampling of surface cover materials (i.e., concrete, asphalt, and soil) was also performed to determine if tracking of PCB impacts from one area to another had occurred at the Site.

Delineation of Site impacts is judged against two criteria. The first is a determination of whether or not releases to the environment have been delineated to the extent where remedial criteria are no longer exceeded. This level of delineation is sufficient to allow for the design of remedial actions. The second is a determination of whether or not the entire release area has been defined; which is the requirement of the CT DEEP Site Characterization Guidance Document (CT DEEP, September 2007 and Revised December 2010). This second level of delineation for non-naturally occurring COCs (e.g., PCBs) is typically performed until PCBs are non-detect in the samples analyzed. However, this level of delineation may not be possible for naturally occurring COCs (e.g., metals) or COCs that may be widespread in fill (e.g., metals, ETPH, and PAHs).

Remedial criteria included in the data summary tables and used to judge the level of delineation for this report include:

- I/C DEC – Use of this criteria assumes that an industrial/commercial environmental land use restriction (ELUR) will be applied to the Site as part of the overall remedial efforts. The criteria used are those provided in Appendix A of the CT RSRs.
- GB PMC – The criteria used are those provided in Appendix B of the RSRs. Where SPLP extraction and analysis was performed, the leachate concentration is compared to: (1) ten times the Groundwater Protection Criteria (GWPC) for organic chemicals, excluding PCBs given that no non-aqueous phase liquid (NAPL) is present in the soils; or (2) the listed GB PMC for inorganic chemicals and PCBs.

The industrial/commercial volatilization criteria were potentially applicable for determination of delineation. However, VOCs were typically non-detect or detected at very low concentrations and these criteria were not listed in the tables as VOCs will not require remediation on Southern Side of the Site.

The Federal PCB remedial standards specified in §761.61(a)(4) of 40 CFR Part 761 are also applicable. The Federal high occupancy standard of 1 mg/kg is used to determine the need for remediation and locations with PCBs less than 10 mg/kg may be left in place with a cap.

For chemicals detected at the Site that do not have established remedial criteria in the RSRs, remedial criteria were selected from "Technical Support Document: Recommended Numeric Criteria for Common Additional Polluting Substances and Certain Alternative Criteria," CT DEEP December 10, 2015 and Revised January 27, 2017. Use of these remedial criteria will require application to and approval from the CT DEEP.

4.2 AOC-3: Former Septic Systems

AOC-3 includes two former septic system locations within the Southern Side of the Site. Historic maps depict the locations of two historic septic structures; one located on the western side of the Site (Septic West) and one manhole along the eastern side of the Site (Septic East). The vicinity of the structure

located within Septic West has been partially investigated in that a sludge sample from the structure was previously collected and analyzed for PCBs.

TRC's SOS indicates chemicals of concern for AOC-3 included VOCs, SVOCs, ETPH, PCBs, and metals. The primary release mechanisms are identified as direct dumping of material to septic structures or manholes and carrying of surficial contaminants by storm waters in through manholes into structures. Secondary release mechanisms are identified as potential releases from a buried septic structure directly to the subsurface. Releases directly to the subsurface would be entrapped in the soil pore spaces in the vadose zone. Any product that infiltrated into the subsurface would be subject to migration to the groundwater through the infiltration of rainwater and the fluctuating water table.

4.2.1 AOC-3 (Septic West)

Weston & Sampson documented the advancement of three soil borings (AOC-3-1 through AOC-3-3) within the area of AOC-3 – Septic West as prescribed in the TRC SOS. The borings were advanced around the structure to depths ranging from 6 to 15 feet below ground surface (bgs). Soil samples were collected from three sample intervals; shallow (0-0.5' bgs), intermediate (ranging from 2.5-8' bgs); and deep (11-12' bgs). Two porous media (concrete) samples were also collected from the top of the structure and one sediment sample was collected from the interior of the structure. The samples were submitted for laboratory analysis of PCBs, VOCs, SVOCs, ETPH and/or metals. See Figures 4-1 through 4-3 for sample locations and Table 1 for a summary of analytical results.

The following summarizes the findings of the AOC-3 (Septic West) investigation:

- Field screening of soil samples did not identify evidence of impacts.
- PCBs were detected in four of 12 soil samples at concentration below 1 mg/kg. Three of the samples were collected from 0-0.5 ft bgs and the other was at 2.5-4 ft bgs.
- The VOC carbon disulfide was detected in one soil sample at a concentration less than 120 mg/kg and well below applicable remedial criteria.
- ETPH was detected in seven of nine soil samples at concentrations less than the applicable remedial criteria.
- PAHs were detected in one duplicate soil sample (but not the parent), AOC-3-2 (3-4'), at concentrations above the GB PMC. However, it is suspected that the PAHs at this depth are more likely due to fill and not a release and the PMC is not applicable.
- SPLP lead was detected in soil sample (AOC-3-2 3-4') above the GB PMC. However, it is suspected that the lead at this depth is more likely due to fill and not a release and the PMC is not applicable. None of the lead sample results exceeded the I/C DEC.
- Analysis of the sediment sample (AOC-3-SE-6) collected from within the septic structure identified PAHs, PCBs above 1 mg/kg, and the VOCs chloroethane, 1,4-dichlorobenzene, and 1,1-dichloroethane. Sediments should be removed from this structure to remove a potential source of impacts to the subsurface.

- Analysis indicated that the two concrete samples were non-detect for PCBs.

Results of the investigation in AOC-3 – Septic West generally support the previous CSM for this area except for no evidence of tracking of PCBs were identified. Soil in the area is impacted with PAHs and lead above the GB PMC, however, these detections are likely associated with widespread polluted fill material and the PMC is not applicable under the Widespread Polluted Fill Variance. Sediment within the structure is impacted with PAHs and PCBs above remedial criteria and should be removed to eliminate this potential source material.

ETPH and VOCs were detected at low levels and therefore do not appear to be chemicals of concern for AOC-3. Based on the results of the investigation, additional investigation is not required to assess the horizontal and vertical extent of COCs in this AOC.

4.2.2 AOC-3 (Septic East)

Soil borings advanced within this AOC were designated as AOC-13 in the SOS in the sample identifier as the Septic East location is within AOC-13. The borings described below are included in this section as they are applicable to characterization of AOC-2 (Septic East).

Weston & Sampson documented the advancement of three soil borings (AOC-13-21 through AOC-13-23) within the area of AOC-3 – Septic East as prescribed in the TRC SOS. The borings were advanced around the structure to depths of 10 feet bgs. Soil samples were collected from three sample intervals; shallow (0 to 0.5' bgs), intermediate (ranging from 0.5 to 2' bgs); and deep (5 to 6' bgs). One porous media (asphalt) sample was collected from boring location AOC-13-21 and two sediment samples (AOC-3-SE-6 and AOC-13-SE-31) were collected from the interior of the structure and an adjacent manhole structure. The samples were submitted for laboratory analysis of PCBs, VOCs, SVOCs, ETPH and/or metals. See Figures 5-1 through 5-3 for sample locations and Table 1 for a summary of analytical results.

The following summarizes the findings of the AOC-3 (Septic East) investigation:

- Field screening of soil samples did not identify evidence of impacts.
- PCBs were detected in soil sample AOC-13-19 (0.5-1') above 1 mg/kg but below 10 mg/kg. As shown on Figure 5-1, other PCB impacts are present within the area and the source of the PCBs in this sample is probably likely to a release not associated with the septic structure.
- PAHs were detected in soil sample AOC-13-21 (1-1.5') at concentrations above applicable remedial criteria and arsenic was detected above remedial criteria in soil sample AOC-13-19 (5.5-6'). These detections are believed to be associated with fill material at the Site.
- ETPH was detected in the one soil sample analyzed at a concentration less than the applicable remedial criteria.
- Analysis of the sediment samples identified PCBs and PAHs above remedial criteria. PCBs were also detected above 1 mg/kg in the samples but below 10 mg/kg.
- Analysis of sediment sample AOC-13-SE-31 also identified ETPH and arsenic above applicable

remedial criteria.

- Analysis of the asphalt sample did not identify detectable concentrations of PCBs.

Results of the investigation in AOC-3 - Septic East generally support the previous CSM for this area. Although soil impacts above remedial criteria were not identified at depth, PCB impacts above criteria were identified in shallow soil. Sediment is impacted with PCBs, PAHs, ETPH and arsenic above remedial criteria. Based on the results of the investigation and review of historic data, additional investigation is not required in the area of AOC-3-Septic East to delineate the nature and extent of impacts.

4.3 AOC-7 Former Waste Oil AST / Oil Pump Room Area

AOC-7 is located within the southeastern corner of the Site. A former waste oil AST was located adjacent to the southeastern corner of the English Station building. An oil pump house that serviced the building's boiler system was also located in this area. Previous investigations in AOC-7 identified elevated concentrations of petroleum hydrocarbons, SVOCs, lead and PCBs in soil. Elevated concentrations of PCBs were also previously identified in asphalt and concrete.

TRC's SOS indicates that the primary release mechanisms identified for AOC-7 are leakage from oil-filled equipment being brought out of the building through the nearby overhead door onto the ground surface (asphalt/gravel or soil) and leakage from the tank and/or associated piping and fittings to the ground surface. Secondary release mechanisms are identified as seepage into the surrounding soil from infiltration through the asphalt and into an associated concrete pipe trench. Tracking is a concern due to amount of surficial impacts identified and the demolition activities which have taken place.

Weston & Sampson documented the advancement of 26 soil borings (AOC-7-1 through AOC-7-26) within AOC-7. The borings were advanced to depths ranging from 10 to 12 feet bgs. Soil samples were collected from the surface, intermediate and deeper depths and submitted for laboratory analysis of PCBs, PAHs, VOCs, ETPH and/or metals. Porous media (asphalt or concrete) samples were also collected from each boring location, where identified, and from concrete pads and pipe tunnels within the area of AOC-7. Sediment samples were also collected from manhole structures and pipe tunnels. See Figures 6-1 through 6-3 for sample locations and Table 2 for a summary of analytical results.

The following summarizes the findings of the AOC-7 investigation:

- Field screening of soil samples did not identify elevated PID readings; however, visual and olfactory evidence of petroleum impacts were identified in soil samples collected from borings AOC-7-2, 3, 4, 5, 9, 17, 20, 23 and 26. Soil with petroleum odors and sheen were observed in samples collected at depths ranging from 5 to 15 feet within the borings. A sheen was observed in soil sample AOC-7-20 (5-8') as well.
- PCBs were identified in soil samples AOC-7-1 (5.5-6'), 2 (8-8.5'), 3 (5-6'), 7 (0.5-1'), 7 (5.5-6'), 8 (0.5-1'), 8 (2.5-3'), 13 (0-0.5'), 13 (0.5-1') and 13 (4-4.5') above remedial criteria and at concentrations ranging from 12 to 330 mg/kg. Total PCB concentrations in samples 7 (5.5-6'), 13 (0.5-1' and 13 (4-4.5') were greater than 50 mg/kg. Additionally, PCBs were detected above 1 mg/kg and less than 10 mg/kg in soil samples AOC-7-6 (5.5-6'), AOC-7-7 (2.5-3'), 7 (5.5-6'),

8 (0-0.5'), 13 (0-0.5'), 14 (1-1.5'), 14 (4-4.5'), and 15 (2-2.5') and in sediment samples SE-27 and 28. SPLP PCB analysis did not identify exceedances of remedial criteria in soil samples.

- ETPH was detected above remedial criteria in soil samples AOC-7-2 (8.5-9'), 3 (6-6.5'), 4 (12.5-13'), 7 (5.5-6'), 9 (6-6.5'), 20 (8-9') and 20 (16-17'); and in sediment samples SE-26, 27 and 28. SPLP ETPH analysis identified an exceedance of remedial criteria in sample AOC-7-3 (6-6.5'). ETPH in this AOC is believed to be due to releases from site operations and not due to the presence of polluted fill.
- PAHs were detected above remedial criteria in soil samples AOC-7-5 (12.5-13'), 9 (6-6.5'), and 15 (5-5.5'); and in sediment samples SE-26, 27 and 28.
- Vanadium (leachable) was detected above remedial criteria in a duplicate soil sample AOC-7-2 (8.5-9') but not the parent. The presence of vanadium in this sample is believed to be from the fill that constitutes the Site and not from a release.
- VOCs were not identified above remedial criteria in any of the samples analyzed.
- Analysis of porous media samples (asphalt and concrete) did not identify concentrations above remedial criteria.

Results of the investigation in AOC-7, in general, support the previous CSM for this area. However, the investigation did not identify impacts to porous media which indicates that tracking of PCBs is not an issue. PAH and vanadium impacts may be associated with fill material on-Site but the extensive and deeper detections of PCBs and ETPH in this area make that determination difficult to make in this area of the Site. Based on investigation results and review of historic data, additional investigation is not required to delineate the extent of PCBs and petroleum impacts. Further, remedial measures are anticipated to address the PCB and petroleum impacts identified within AOC-7.

4.4 AOC-8 Former Fuel Oil ASTs

AOC-8 is located within the southern portion of the Site. One 50,000-gallon No. 6 fuel oil vertical tank was previously located within a concrete containment berm located in the far southern end of the Site. Following the cessation of the use of coal in the 1950s, No. 6 fuel oil was used as the fuel source for the plant. To the west of the former No. 6 fuel oil tank, there were two 5,000-gallon No. 2 fuel oil ASTs that were formerly located in concrete cradles.

TRC's SOS indicates that the chemicals of concern for AOC-8 included VOCs, PAHs, ETPH and PCBs. The primary release mechanisms identified for this AOC are incidental spills from filling operations, leaks from valves, piping, fittings to the ground surface or subsurface (relative to the appurtenances). Secondary release mechanisms included seepage into soils underlying concrete or asphalt through infiltration through cracks, seams or other breaches. Tracking of surficial contamination was also a concern particularly due to the fact that previously identified impacts include PCBs at concentrations greater than 50 mg/kg in shallow soils along the bulkhead where it is not paved.

Weston & Sampson documented the advancement of 6 soil borings (AOC-8-1 through 6) within AOC-8. Soil samples were selected at varying depth intervals within each boring for laboratory analysis. Ten

(10) surficial soil samples (AOC-8-7 through 16) were also collected. Additionally, 13 porous media (asphalt or concrete) were collected and seven (7) sediment samples were collected from pipe trenches and sumps associated with the former secondary containment structures. See Figures 7-1 through 7-3 for sample locations. The samples were submitted for varying analyses including: PCBs, VOCs, PAHs, ETPH, and metals. See Table 3 for a summary of analytical results.

The following summarizes the findings of the AOC-8 investigation:

- Field screening of soil samples did not identify evidence of impacts.
- PCBs were detected above 1 mg/kg and below 10 mg/kg in soil samples (AOC-8-4 (0-0.5'), 4 (0.5-1'), and 4 (2-2.5').
- PAHs were detected above remedial criteria in soil samples (AOC-8-2 (1-1.5'), 8 (1-2'), 9 (1-2'), 10 (1-2'), and 15 (1-2').
- ETPH was not detected above remedial criterial in any of the soil samples analyzed.
- PCBs were identified above 1 mg/kg in concrete samples AOC-8-CO-16B (0-0.5") and CO-17 (0-0.5"). A maximum concentration of 1,800 mg/kg total PCBs was identified in sample CO-16B (0-0.5").
- Analysis of sediment samples identified PCBs, PAHs, ETPH and metals (arsenic and lead) above remedial criteria. A maximum concentration of 2,300 mg/kg of total PCBs was identified in sample SE-16.

Results of the investigation in AOC-8 generally support the previous CSM for this area. However, this investigation did not identify significant petroleum impacts to soil which indicates that releases from the ASTs were not an issue. PAHs detected in soil are likely associated with fill material. Elevated concentrations of PCBs were identified in surficial soil and appear to be from releases of PCBs due to the concentrations detected and not as a result of tracking. Analysis of concrete and sediment samples identified significant PCB impacts to concrete and sediment in the trenches within the area, as well as indicating releases within the trenches. Sediment within the pipe trench is also impacted with elevated concentrations of ETPH, PAHs and metals which indicates releases directly to the sediments as these impacts are not identified in soil. Based on the above data and review of historic data, additional investigation is not required to further define the extent of soil with elevated PCB impacts or to further assess the extent of impacted concrete and sediment within the pipe trenches. Remediation of PCB impacted soil, sediments, and porous materials is anticipated within this AOC.

4.5 AOC-9: Transformer Areas

AOC-9 is located within the southwestern portion of the Site to the west of the English Station building. This area is the former location of multiple historical transformers and capacitors. There is one large pad-mounted transformer (identified as Transformer G) located adjacent to the northwestern corner of English Station. This transformer is located on a concrete pedestal within a concrete containment dike. Three pad-mounted transformers (identified as Service Transformers 1-3) were previously located

adjacent to the western exterior wall of the English Station building. Two transformers (identified as 7A and 37A) were previously located within a containment "tub" located within this AOC as well.

TRC's SOS indicates that chemicals of concern for AOC-9 included PCBs, ETPH and PAHs. The primary release mechanisms identified for this AOC are surface releases from oil-filled electrical equipment (e.g., transformers and capacitors) to concrete pads and dikes and absorption into concrete surfaces. Secondary release mechanisms included seepage/migration through concrete via cracks, breaches or sumps into the underlying soil, migration with precipitation into adjacent paved (asphalt) and unpaved surfaces and seepage into underlying soils. Tracking of surficial contamination was also considered a concern.

Weston & Sampson documented the advancement of 48 soil borings (AOC-9-1 through 48) within AOC-9. Soil samples were selected at varying depth intervals within each boring for laboratory analysis. Porous media samples (asphalt or concrete) were collected at boring locations when encountered. Additionally, 36 porous media (concrete or asphalt) were collected to characterize structures and potential impacts from tracking. Six (6) sediment samples were collected from manhole structures and a sump. See Figures 8A-1 through 3, 8B-1 through 3, and 8C-1 through 3 for sample locations. The samples were submitted for varying analyses including: PCBs, VOCs, PAHs, ETPH, and metals. See Table 4 for a summary of analytical results.

The following summarizes the findings of the AOC-9 investigation:

- Field screening of soil samples did not identify elevated PID readings. Solvent odors were observed in soil samples collected from borings AOC-9-9, 11, and 14 at depths ranging from 4 to 10 feet bgs. Petroleum odors were observed in soil samples collected from borings AOC-9-18, 30, 32, 35 and 36 at depths ranging from 4 to 10 feet bgs.
- PCBs were detected at or above 1 mg/kg and at or below 10 mg/kg in 40 soil samples. Analysis of soil samples AOC-9-6 (0.5-1'), 6 (1-1.5'), 7 (0.5-1'), 9 (0.5-1'), 13 (0.5-1'), 13 (1.5-2'),16 (1.5-2'), 23 (1.5-2'), 27 (0-0.5'), 28 (0.5-1'), 29 (0-0.5'), 31 (0.5-1'), 31 (2-3') and 48 (5.5-6') identified PCBs above 10 mg/kg. PCBs were detected above 50 mg/kg in samples AOC-9-6 (0.5-1'), 6 (1-1.5'), 29 (0-0.5') and 48 (5.5-6').
- PAHs were detected above remedial criteria in soil samples AOC-9-6 (1-1.5'), 11(8-9.5', 18 (8-9.5'), 30 (9-9.5'), 32 (6-7.5'), 35 (4-5'), 37 (4-5'), 40 (0-0.5'), 41 (9.5-10') and 47 (12-12.5').
- ETPH and VOCs were not detected above remedial criterial in any of the samples analyzed.
- PCBs were identified above 1 mg/kg in asphalt samples AOC-9-AS-4 (0-0.5'), AS-21 (0-0.5') and AS-30 (0-0.5').
- Analysis of concrete samples collected to characterize structures and potential impacts from tracking did not identify PCBs above 1 mg/kg.
- Analysis of sediment samples identified PCBs above 1 mg/kg but below 10 mg/kg. PAHs and lead were also identified above remedial criteria in 1 sediment sample.
- A single sample of oil found in a subsurface structure (see Figure 8C-1 for location) was found

to contain 5 mg/kg Aroclor 1260. There were no sediments in the structure and the thickness of the oil was approximately two inches.

Results of the investigation in AOC-9 generally support the previous CSM for this area. Significant PCB impacts to soil and asphalt have been identified and the source appears the former use of transformers in the area and potential localized tracking of contaminants. PAHs detected in soil are likely associated with fill material. Sediment within manhole structures is also impacted with PCBs, PAHs and lead above remedial criteria. Based on the above data and review of historic data, additional investigation is not required to further define the extent of soil and asphalt with elevated PCB impacts and further assess potential petroleum impacts.

4.6 AOC -10 Former Interior Chemical Storage Areas

AOC-10 is located within the southwestern and southern portions of the Site and is associated with former interior chemical storage in outbuildings located adjacent to the main English Station building. The buildings include a former Assembly Hall Building and Storage and Shop Building located west of English Station and a Foam House building located to the south.

TRC's SOS indicates that the chemicals of concern for AOC-10 included: VOCs, SVOCs, ETPH, PCBs and metals. The primary release mechanisms identified for this AOC are direct releases to the floors of the buildings and tracking of contaminants into the buildings from outside areas. Secondary release mechanisms included potential seepage through cracks, seams or other breaches in the floors to the underlying soils. Tracking of surficial contamination both into and out of the building was also a concern.

Weston & Sampson documented the advancement of 19 soil borings (AOC-10-1, 2, 7, 8, 10, 11, 13, 16, 17, 20, 25, 30, 31, 41, 42, 43 and 45) within AOC-10. Soil samples were selected at varying depth intervals within each boring for laboratory analysis. Additionally, 45 porous media (concrete) samples and one sediment sample were collected. See Figures 9A-1 through 3, 9B-1 through 3, and 9C-1 through 3 for sample locations. The samples were submitted for varying analyses including: PCBs, PAHs, ETPH, and metals. See Table 5 for a summary of analytical results.

The following summarizes the findings of the AOC-10 investigation:

- Field screening of soil samples did not identify evidence of impacts.
- Analysis of soil samples did not identify PCBs, PAHs, EPTH or metals above remedial criteria, with the exception of soil sample AOC-10-8 (0.5-1') where arsenic was identified above criteria. However, the detection is likely associated with fill material at the Site.
- As shown in Table 5, PCBs were detected at or above 1 mg/kg and at or below 10 mg/kg in 24 of the concrete samples. PCBs were detected above 10 mg/kg in nine concrete samples (AOC-9-CO-10, 11, 14, 19, 24, 25, 26, 27 and 28). PCB were detected above 50 mg/kg in concrete samples AOC-9-11, 14, 24, 25, 26 and 27 with concentrations ranging from 62 mg/kg to 11,000 mg/kg.
- Analysis of the sediment sample (AOC-10-SE-15) collected from a sump within the Shop Building identified total PCBs at 430 mg/kg which is above the remedial criteria.

Results of the investigation in AOC-10 generally support the previous CSM for this area. PCB-impacted concrete was identified within each of the buildings. However, this investigation did not identify significant impacts to soil beneath the buildings. The arsenic detected in the single soil sample above remedial criteria is likely associated with fill material. Sediment within the sump of the Shop Building is also impacted with PCBs above remedial criteria. Based on the above data and review of historic data, additional investigation is not required to further define the extent of PCB-impacted concrete for remedial planning purposes.

4.7 AOC -11 On-Site Fill Material: Evaluation of Tracking

AOC-11 is fill material located throughout the Site. The Site exists on Ball Island, a land mass that was created within the Mill River. As documented in historic reports for the Site, the island was created from spoils generated from dredging operations performed from the 1800s to 1900s in the Mill River to maintain navigable waters. As the Mill River was the receiving water body for many discharges emanating from industrial operations over the years, the spoils that comprise the island and fill material at the Site are inherently impacted with petroleum hydrocarbons, PAHs and metals.

TRC's SOS indicates that the chemicals of concern for AOC-11 include: PCBs (from tracking and not historical releases), PAHs, ETPH and metals. The COCs PAHs, EPTH, and metals are found in the fill materials that comprise the island on which English Station and Station B are located. The SOS indicates that the fill material has been adequately characterized by others during previous investigatory efforts. As such, the SOS for AOC-11 included evaluation of tracking across pads/structures not captured by other AOCs.

Weston & Sampson collected three porous media (concrete) samples (AOC-11-CO-1 through 3) from concrete pad structure P12 located on the southwestern portion of the Site. See Figures 10-1 through 10-3 for sample locations. There was no sediment observed within the manholes of the structure and therefore, sediment samples were not collected. The concrete samples were submitted for PCB analysis. See Table 6 for a summary of analytical results.

As shown in Table 6, the analysis did not identify detectable concentration of PCBs in the concrete samples. Results of the investigation indicate surface concrete at structure P12 is not impacted with PCBs. Additional investigation of the structure from potential impacts from tracking are not required.

4.8 AOC -13 Former Wastewater Treatment System

AOC-13 is located within the southeastern portion of the Site, to the east of the English Station building and includes remnants of a former wastewater treatment system (primarily concrete structures). The operational history of this former treatment system is not well documented in historic reports associated with the Site.

TRC's SOS indicates that the chemicals of concern for AOC-13 include: VOCs, SVOCs, ETPH, PCBs and metals. The primary release mechanisms identified for this AOC are leakage or spillage onto the concrete pads on which former treatment system components were located or to asphalt surfaces in the area and direct discharge to the ground surface. Secondary release mechanisms include infiltration

through the asphalt or concrete or through cracks, to the underlying soils. Tracking of surficial contamination was also considered a concern.

Weston & Sampson documented the advancement of 22 soil borings (AOC-13-1 through 18 and 22 through 25) within AOC-13. Soil samples were selected at varying depth intervals within each boring for laboratory analysis. A total of 27 porous media samples (asphalt or concrete) were collected at boring locations, where encountered, and from concrete pads and piping trenches. Six (6) sediment samples were collected from pipe trenches in this area. See Figures 11-1 through 3 for sample locations. The samples were submitted for varying analyses including: PCBs, VOCs, PAHs, ETPH, and metals. See Table 7 for a summary of analytical results.

The following summarizes the findings of the AOC-13 investigation:

- Field screening identified petroleum / fuel oil odors in soil samples collected from borings AOC-13-8, 9, 10, 11, 24, and 25 at depths ranging from 7.5 to 20 feet bgs. PID screening identified TOVs ranging from 1 to 15 part per million by volume (ppmv) in the soil samples collected from these borings.
- PCBs were detected above 1 mg/kg and below 10 mg/kg in soil samples AOC-13-6 (0.5-1'), 19 (0.5-1'), 22(0.5-1'), 22 (1.5-2'), 23 (0.5-1'), 23 (1.5-2'), 23 (5-5.5'), 24 (7.5-8'), 25 (7.5-8') and 37.
- Analysis of soil samples AOC-13-22 (0.5-1'), 22 (5-5.5'), 24 (0-0.5'), 24 (0.5-1'), 24 (1.5-2'), 25 (0-0.5'), 25 (0.5-1'), 25 (1.5-2'), and 25 (7.5-8') identified PCBs above 10 mg/kg.
- PCBs were detected above 50 mg/kg in soil samples AOC-13-24 (0-0.5'), 25 (0.5-1'), 25 (1.5-2'), and 25 (7.5-8').
- PAHs were detected above remedial criteria in soil samples AOC-13-5 (8-8.5'), 9 (8.5-9.5'), 17 (11-12'), and 21 (1-1.5'). The PAH detections appear to be associated with fill material at the Site. The PAH detection in sample AOC-13-9 (8.5-9.5') may also be associated with petroleum impacts identified during field screening.
- ETPH and VOCs were not detected above remedial criterial in any of the soil samples analyzed.
- Arsenic was detected in the soil sample from AOC-13-19 (5.5-6') at a concentration of 37 mg/kg. At this depth, the arsenic is believed to be from fill and not a release at the Site.
- PCBs were not identified above laboratory detection limits in any of the asphalt samples.
- Analysis of concrete samples identified PCBs above 1 mg/kg and below 10 mg/kg in samples AOC-13-CO-26 (0-0.5") and CO-29 (0-0.5").
- Analysis of sediment samples identified PCBs above 1 mg/kg but below 10 mg/kg. PAHs, ETPH and metals (arsenic and lead) were also identified above remedial criteria in sediment samples.

Results of the investigation in AOC-13 generally support the previous CSM for this area. Significant PCB impacts to soil at depth have been identified and these impacts are believed to be from releases during historical Site operations. Petroleum impacts were also identified at discrete sample locations and are also believed to be from releases during historical Site operations. PCB impacts to asphalt were not

identified and tracking is not seen as a potential release mechanism. PAHs and metals detected appear to be associated with fill material as they are typically at depth and are not likely due to surface releases during historical Site operations. Sediment within the pipe trenches is impacted with various COCs including PCBs and will require remediation. Based on the above data and review of historic data, additional investigation is not required to further define the extent of elevated PCB impacts and soil identified with petroleum impacts.

4.9 Conceptual Site Model Summary

The following is a summary of modifications to the AOC CSMs following the evaluation of Site investigation data:

- AOC-3 Former Septic Systems: PAHs, lead and arsenic identified in soil above remedial criteria appear to be associated with fill and are not from historic use of the septic systems/structures. ETPH and VOCs were detected at low levels and therefore do not appear to be COCs for AOC-3. Sediments within the septic structures exhibit concentrations greater than the I/C DEC for some COCs and should be removed as they present a potential source of COCs.
- AOC-7 Former Waste Oil AST / Oil Pump Room Area: PAHs and vanadium identified in soil above remedial criteria appear to be associated with fill and are not from a release from the former AST or pump room. Impacts to porous media were not identified and tracking is not seen as an issue for this AOC. PCBs and ETPH were identified in soil to depths of eight to ten feet below the ground surface and the source of these impacts are believed to be from releases from historical Site operations.
- AOC-9 Transformer Areas: The investigation did not identify significant petroleum impacts to soil and PAHs detected in soil are likely associated with fill material. However, historical data and that obtained during this investigation indicate areas where PCBs have been released to the surface.
- AOC-10 Former Interior Chemical Storage Areas: This investigation did not identify significant impacts to soil beneath the buildings from historical operations within AOC-10. Arsenic detected in the single soil sample above remedial criteria is likely associated with fill material. However, the concrete of the buildings was significantly impacted with PCBs and demolition of the concrete pads is anticipated as being necessary to remediate the concrete.
- AOC -11 On-Site Fill Material: Evaluation of Tracking: Results indicate surface concrete at structure P12 is not impacted with PCBs. Analytical data collected from across the Site generally indicate that tracking of PCBs and other COCs at the site is not a release mechanism of concern.
- AOC -13 Former Wastewater Treatment System: PCB impacts to asphalt were not identified and tracking of PCBs is not seen as a potential release mechanism for this AOC. PAHs and metals detected are likely associated with fill material used to construct the island. However, releases of PCBs and petroleum hydrocarbons during historical Site operations were identified

as well as releases of these COCs to sediment samples and these impacts will require remediation.

- South Side: **Figures 12-1 through 12-3** show the entire South Side of the property with all of the historical and current PCB data as well as recently collected ETPH. There are areas of PCB impacts identified (e.g. AOC-7, AOC-9, trenches in AOC-8) but evidence of tracking of these impacts was not identified. In general, the extent of these PCB impacts have been delineated and no additional investigation is required to delineate these impacts. Remediation will be required to comply with the RSRs.

5.0 REMEDIAL ALTERNATIVES

The following is a discussion of the chemicals of concern at the Site, the applicable regulations, and how these regulations will affect remedial decision making.

5.1 Chemicals of Concern

Chemicals of concern at the Site include PCBs, ETPH, PAHs, and metals. These COCs are present at the Site either due to historical releases or, in the case of PAHs, metals, and some petroleum hydrocarbons, are present in widespread polluted fill used to construct and expand Ball Island.

Typical remediation processes used to treat these COCs along with their applicability for these COCs are:

- Biological Treatment – In-situ or ex-situ reduction of contaminants by enhancing natural biodegradation with addition of oxygen and/or nutrients or reliance on naturally-occurring conditions.
    - PCBs – Biodegradation of PCBs is an inefficient process that requires a transition between aerobic and anaerobic conditions to achieve complete degradation. This remedial process is not typically employed for this COC.
    - ETPH and PAHs – Biodegradation of these COCs is a proven technology but heavier PAHs (3-, 4-, or 5-ring) are degraded slowly. Biodegradation occurs best under aerobic conditions and could be employed at the Site for these COCs.
    - Metals – The oxidative state of metals may be altered during biodegradation. However, this method is typically employed only if metals are dissolved in groundwater and is not typically used for treating metals in soil.
- Chemical Oxidation – In-situ or ex-situ reduction of contaminants by treating with chemical oxidants.
    - PCBs – PCBs are readily degraded by chemical oxidation. However, this is not a typically employed remediation for this COC for reasons discussed in Section 5.2.
    - TPH and PAHs – Chemical oxidation of these COCs is a proven technology for these COCs.
    - Metals – The oxidative state of metals may be altered using chemical oxidation. However, this method is typically employed only if metals are dissolved in groundwater and is not typically used for treating metals in soil.
- In-Situ Stabilization – In-situ stabilization of contaminants to either reduce their solubility or to prevent direct exposure.
    - PCBs – PCBs can be stabilized in the environment and this is a technology that has been employed. However, this is not a typically employed remediation for this COC for reasons discussed in Section 5.2.

  - TPH and PAHs – These COCs can be stabilized in-situ but this process is typically applied if COCs are deep below the surface or if there are other factors that render other treatment processes technically infeasible.
  - Metals – In-situ stabilization is a technology that is used for these COCs. However, this method is typically employed only if metals are dissolved in groundwater and is not typically used for treating metals in soil.

- Excavation with off-Site disposal – A commonly employed remedial technology that offers permanent solutions in a short timeframe. However, costs for implementation can be significant and these costs could drive evaluation of other alternatives.
  - PCBs – PCBs can be excavated and disposed off-Site and this technology is typically employed for PCBs.
  - TPH and PAHs – These COCs can be excavated and disposed off-Site and this technology is typically employed.
  - Metals – These COCs can be excavated and disposed off-Site and this technology is typically employed.

5.2 Applicable Regulations

Chemicals of concern at the Site are regulated under the RSRs. The remedial criteria applicable to the Site for these COCs under the RSRs include the:

- I/C DEC – Soil with concentrations of COCs exceeding the I/C DEC may be treated in-situ or ex-situ to reduce concentrations, removed from the Site, or capped in a manner that renders the soil inaccessible as per the definition in the RSRs. The exception is PCBs which must be remediated to a concentration less than the I/C DEC down to a depth of fifteen feet below ground surface. Application of the I/C DEC will require an ELUR restricting site use to industrial and commercial purposes be placed on the parcel.
- GB PMC – Soil with concentrations of COCs exceeding these criteria or with SPLP leachate results that exceed the GB PMC above the seasonal high groundwater table must be reduced in concentration or the leachability of the COC reduced. This may be done by removing soil or treating the soil in-situ or ex-situ. The widespread polluted fill variance exempts COCs from application of the GB PMC. This variance is applicable to PAHs, metals, and petroleum hydrocarbons that were in the fill material used to construct the island and not due to a release after the fill materials were placed.

PCBs at the Site are regulated under the federal PCB regulations found in 40 CFR Part 761 as PCB Remediation Waste. Under the federal PCB regulations, disposal is defined as:

> *Disposal* means intentionally or accidentally to discard, throw away, or otherwise complete or terminate the useful life of PCBs and PCB Items. Disposal includes spills, leaks, and other uncontrolled discharges of PCBs as well as actions related to

containing, transporting, destroying, degrading, decontaminating, or confining PCBs and PCB Items.

Thus, both the release of PCBs to the environment and any process that involves removal, destroying or containing PCBs are defined as a disposal. Federal regulations for the storage and disposal of PCB-containing materials are found in 40 CFR Part 761 Subpart D. The technologies allowed for disposal of PCB remediation wastes under Subpart D include excavation and removal from the Site with either incineration (§761.70), disposal in an appropriately permitted landfill (§761.75), or capping PCB remediation waste soil and disposal in place. Other remedial technologies, such as soil washing, ex-situ thermal treatment, chemical oxidation, or in-situ stabilization may be employed but must be approved on a Site-specific basis. These approvals can be difficult to obtain so excavation and removal is typically employed. PCB-impacted materials may also be capped and disposed in place.

5.3 Remedial Implications

PCBs are the most common COC on the property and are driving remedial actions in many areas. For areas where PCBs are found with other COCs, the disposal requirements for PCBs control remedial selection.

As such, excavation and off-Site disposal of soil where PCB concentrations are greater than the I/C DEC for PCBs (10 mg/kg) will be the preferred remedial alternative because it can be implemented in a timely manner, is permanent, and acceptable to the regulators. However, this alternative is costly and other alternatives will be evaluated where applicable. For locations where PCB concentrations are less than the I/C DEC, these soils may be rendered inaccessible with a combination of soil and asphalt or concrete caps.

5.4 Anticipated Remedial Alternatives

The anticipated remedial alternatives for soil on the southside of the property is a mix of excavation to remove PCBs greater than 10 mg/kg and ETPH impacts due to releases that also exceed the GB PMC and rendering remaining soil inaccessible where implementable. However, grades will need to be maintained at the buildings and the bulkhead surrounding the island. Capping of impacts near the bulkhead and the buildings will be combined with excavation of two feet of soil with asphalt or concrete placed over the surface of the clean materials used to backfill or excavation of four feet of soil with backfilling with clean materials. The limited space between the building and the bulkhead make changing grades even more difficult on the southside when considering drainage. Thus, it is considered likely that grades will be maintained on the southside of the property.

Application of the I/C DEC requires that soil with total PCB concentration greater than 10 mg/kg be excavated and leaving soil with greater than 10 mg/kg total PCBs in place would require an engineered control variance which is not seen as being administratively implementable and would take extended timeframes to receive. Thus, excavation and offsite disposal of soil with PCB concentrations greater than 10 mg/kg is likely but an engineered control may be employed if necessary given site conditions.

Releases of petroleum hydrocarbons during historical site operations have been found and where these soil impacts exceed the GB PMC, excavation and offsite disposal is considered to be the likely remedial

alternative. These impacts could be treated in-situ, but they are typically collocated with PCBs which cannot be treated in-situ with going through a lengthy permitting process.

PCBs at concentrations less than 10 mg/kg and PAHs, metals, petroleum hydrocarbons that are present in the fill materials and not due to releases may be rendered inaccessible to comply with the I/C DEC. This can be done by constructing a cap. However, given that surface elevations at the bulkhead and around the buildings may not be raised, this capping will likely be combined with excavation so that the required thickness of a cap may be constructed.

6.0 LIMITATIONS

This report was prepared for use by United Illuminating exclusively. The findings provided by Weston & Sampson in this report are based solely on the information reported in this document. Future investigations and/or information that were not available to Weston & Sampson at the time of the investigation may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties that could directly impact the Site in the future, that information should be made available to Weston & Sampson for review so that, if necessary, conclusions presented in this report may be modified.

The conclusions of this report are based on conditions observed by Weston & Sampson personnel at the time of the investigation, information provided by United Illuminating, and samples collected and analyzed on the dates shown or stated in this report. This report has been prepared in general accordance with generally accepted engineering and geological practices. No other warranty, express or implied, is made.

7.0 REFERENCES

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FIGURES