

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 9/8/17 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 Tamed 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 Client T Analysis T Sampler Name T
pertinent Information? 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
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

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.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: 17I0320

Laboratory Sample ID(s):

17I0320-01 thru 17I0320-20

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:
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.

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 1710321

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	1710321-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-1	1710321-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-108-2	1710321-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-3	1710321-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-1	1710321-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-106-2	1710321-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-3	1710321-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP52	1710321-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP53	1710321-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP54	1710321-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP55	1710321-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP56	1710321-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP57	1710321-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP58	1710321-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-DUP59	1710321-15	Soil		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

1710321-02[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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

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							
Decachlorobiphenyl [2]	89.0	30-150							
Tetrachloro-m-xylene [1]	91.0	30-150							
Tetrachloro-m-xylene [2]	94.3	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3

Sampled: 9/8/2017 13:06

Sample ID: 1710321-01

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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							
2-Fluorobiphenyl	74.2	30-130							
p-Terphenyl-d14	79.3	30-130							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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							
Decachlorobiphenyl [2]	78.6	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	93.7	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

Sample Matrix: Soil

Petrolium 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	

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1

Sampled: 9/8/2017 13:27

Sample ID: 1710321-02

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

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							
Decachlorobiphenyl [2]	69.6	30-150							
Tetrachloro-m-xylene [1]	74.8	30-150							
Tetrachloro-m-xylene [2]	79.2	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2

Sampled: 9/8/2017 13:28

Sample ID: 1710321-03

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

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							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	94.5	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3

Sampled: 9/8/2017 13:29

Sample ID: 1710321-04

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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							
2-Fluorobiphenyl	62.6	30-130							
p-Terphenyl-d14	64.2	30-130							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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							
Decachlorobiphenyl [2]	87.6	30-150							
Tetrachloro-m-xylene [1]	87.6	30-150							
Tetrachloro-m-xylene [2]	91.1	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1

Sampled: 9/8/2017 14:23

Sample ID: 1710321-05

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

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							
Decachlorobiphenyl [2]	90.0	30-150							
Tetrachloro-m-xylene [1]	87.2	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2

Sampled: 9/8/2017 14:24

Sample ID: 1710321-06

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

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							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	97.2	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3

Sampled: 9/8/2017 14:25

Sample ID: 1710321-07

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

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							
Decachlorobiphenyl [2]	89.4	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

Sample Matrix: Soil

Petrolium 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		

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52

Sampled: 9/8/2017 00:00

Sample ID: 1710321-08

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

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							
Decachlorobiphenyl [2]	93.5	30-150							
Tetrachloro-m-xylene [1]	97.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53

Sampled: 9/8/2017 00:00

Sample ID: 1710321-09

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

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							
Decachlorobiphenyl [2]	90.8	30-150							
Tetrachloro-m-xylene [1]	90.1	30-150							
Tetrachloro-m-xylene [2]	92.8	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54

Sampled: 9/8/2017 00:00

Sample ID: 1710321-10

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

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							
Decachlorobiphenyl [2]	86.8	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	93.0	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55

Sampled: 9/8/2017 00:00

Sample ID: 1710321-11

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

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							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	77.5	30-150							
Tetrachloro-m-xylene [2]	81.3	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56

Sampled: 9/8/2017 00:00

Sample ID: 1710321-12

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

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							
Decachlorobiphenyl [2]	92.0	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57

Sampled: 9/8/2017 00:00

Sample ID: 1710321-13

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

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							
Decachlorobiphenyl [2]	89.5	30-150							
Tetrachloro-m-xylene [1]	95.1	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58

Sampled: 9/8/2017 00:00

Sample ID: 1710321-14

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

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

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							
Decachlorobiphenyl [2]	95.2	30-150							
Tetrachloro-m-xylene [1]	92.1	30-150							
Tetrachloro-m-xylene [2]	93.2	30-150							

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

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

Sample Description:

Work Order: 1710321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59

Sampled: 9/8/2017 00:00

Sample ID: 1710321-15

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

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

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
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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			

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 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
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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
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Batch B186207 - % Solids
Duplicate (B186207-DUP7)
Source: 1710321-01

Prepared: 09/14/17 Analyzed: 09/15/17

% Solids	55.2		% Wt		58.0			4.95	20	
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Duplicate (B186207-DUP8)
Source: 1710321-02

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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>SW-846 8082A in Soil</i>	
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
<i>SW-846 8270D in Soil</i>	
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 Public 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



Phone: 413-525-2332

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Email: info@contestlabs.com

Weston & Sampson Engineers
273 Divident Rd Rocky Hill, CT

Phone: 860 513-1473

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

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:
 1 = 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)

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-12W-50-101-3	9/13/17	1300		X	S	U
2	WS-AOC-12W-50-103-1		1327				
3	WS-AOC-12W-50-103-2		1329				
4	WS-AOC-12W-50-103-3		1329				
5	WS-AOC-12W-50-100-1		1423				
6	WS-AOC-12W-50-100-2		1424				
7	WS-AOC-12W-50-100-3		1425				
8	WS-AOC-15-50-100-52						
9	WS-AOC-15-50-100-53						

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:	Detection Limit Requirements	Program Information
Received by: (signature)	9/13/17 1520	MA	☐ MCP Analytical Certification Form Required
Relinquished by: (signature)	9/13/17 1520	CT	☒ RCP Analysis Certification Form Required
Received by: (signature)	9/13/17 1540		☐ MA State DW Form Required
Relinquished by: (signature)	9/13/17 1545		PWSID # _____
Received by: (signature)	9/13/17 1707		NELAC and AIHA-LAP, LLC Accredited
Relinquished by: (signature)	9/13/17 1707		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.
Received by: (signature)	9/13/17 1707		PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

17IO321

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ANALYTICAL LABORATORY

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

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East Longmeadow, MA 01028

Page _____ of _____

Company Name: Weston & Sampson Engineers Address: 273 Dividend Rd Rocky 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 Sirotiak		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 Dissolved Metals Samples ☐ Field Filtered ☐ Lab to Filter Orthophosphate Samples ☐ Field Filtered ☐ Lab to Filter		Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil/Solid SL = Sludge O = Other (please define)		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)		Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)					
Con-Test Work Order# 10 11 12 13 14 15		Client Sample ID / Description WS-POL-6-30-DUP54 WS-POL-6-30-DUP55 WS-POL-6-30-DUP56 WS-POL-6-30-DUP57 WS-POL-6-30-DUP58 WS-POL-12W-30-DUP59		Beginning Date/Time 9/8/17 9/8/17 9/8/17 9/8/17 9/8/17 9/8/17		Ending Date/Time - - - - - -		Composite X - - - - -		Grab X - - - - -		Matrix Code S - - - - -		Conc Code - - - - - -	
Comments: Please hold excess volumes for possible SPLP analyses.															
Program Information ☐ MCP Analytical Certification Form Required ☒ RCP Analysis Certification Form Required ☐ MA State DW Form Required PWSID # _____ NELAC and AIHA-LAP, LLC Accredited															
Detection Limit Requirements MA CT Other:															
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 1540 Relinquished by: (signature) Date/Time: 9/8/17 1540 Received by: (signature) Date/Time: 9/8/17 1540 Relinquished by: (signature) Date/Time: 9/8/17 1540 Received by: (signature) Date/Time: 9/8/17 1540															
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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East Longmeadow, MA. 01028
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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
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:
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.

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: 17H1359

Enclosed are results of analyses for samples received by the laboratory on August 24, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1359

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-12E-AS-41	17H1359-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-39	17H1359-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-37	17H1359-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-35	17H1359-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-25	17H1359-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-24	17H1359-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-21	17H1359-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-5	17H1359-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-17	17H1359-09	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-1	17H1359-10	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-2	17H1359-11	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-3	17H1359-12	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-4	17H1359-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-DUP-18	17H1359-14	Product/Solid		SW-846 8082A	
WS-AOC-14-SE-43	17H1359-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-44	17H1359-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-45	17H1359-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-46	17H1359-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-47	17H1359-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-48	17H1359-20	Soil		SM 2540G	
				SW-846 8082A	
EB-50	17H1359-21	Equipment Blank Water		SW-846 8082A	
EB-51	17H1359-22	Equipment Blank Water		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A**Qualifications:****O-28**

Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

Analyte & Samples(s) Qualified:

17H1359-01[WS-AOC-12E-AS-41], 17H1359-02[WS-AOC-12E-AS-39], 17H1359-03[WS-AOC-12E-AS-37], 17H1359-05[WS-AOC-12E-AS-25], 17H1359-06[WS-AOC-12E-AS-24], 17H1359-07[WS-AOC-12E-AS-21]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1016**

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1016 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Aroclor-1260**

B185083-BLK1, B185083-BS1, B185083-BSD1

Aroclor-1260 [2C]

B185083-BLK1, B185083-BS1, B185083-BSD1

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

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-41

Sampled: 8/24/2017 10:00

Sample ID: 17H1359-01

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1260 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.2	30-150						9/7/17 20:38	
Decachlorobiphenyl [2]	88.1	30-150						9/7/17 20:38	
Tetrachloro-m-xylene [1]	88.3	30-150						9/7/17 20:38	
Tetrachloro-m-xylene [2]	86.1	30-150						9/7/17 20:38	

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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-39

Sampled: 8/24/2017 10:10

Sample ID: 17H1359-02

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1260 [1]	0.13	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.7	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	87.1	30-150							
Tetrachloro-m-xylene [2]	83.3	30-150							

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-37

Sampled: 8/24/2017 10:20

Sample ID: 17H1359-03

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1260 [1]	0.098	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150						9/7/17 21:13	
Decachlorobiphenyl [2]	109	30-150						9/7/17 21:13	
Tetrachloro-m-xylene [1]	111	30-150						9/7/17 21:13	
Tetrachloro-m-xylene [2]	105	30-150						9/7/17 21:13	

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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-35

Sampled: 8/24/2017 10:30

Sample ID: 17H1359-04

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	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1260 [2]	0.14	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.2	30-150						9/5/17 19:47	
Decachlorobiphenyl [2]	93.8	30-150						9/5/17 19:47	
Tetrachloro-m-xylene [1]	76.3	30-150						9/5/17 19:47	
Tetrachloro-m-xylene [2]	91.4	30-150						9/5/17 19:47	

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-25

Sampled: 8/24/2017 10:40

Sample ID: 17H1359-05

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1260 [1]	0.10	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1268 [2]	0.087	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150						9/7/17 21:48	
Decachlorobiphenyl [2]	85.8	30-150						9/7/17 21:48	
Tetrachloro-m-xylene [1]	103	30-150						9/7/17 21:48	
Tetrachloro-m-xylene [2]	99.7	30-150						9/7/17 21:48	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-24

Sampled: 8/24/2017 10:50

Sample ID: 17H1359-06

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1260 [1]	0.14	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.2	30-150							
Decachlorobiphenyl [2]	74.2	30-150							
Tetrachloro-m-xylene [1]	94.3	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-21

Sampled: 8/24/2017 11:00

Sample ID: 17H1359-07

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1260 [1]	0.16	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1268 [2]	0.20	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.4	30-150							
Decachlorobiphenyl [2]	73.8	30-150							
Tetrachloro-m-xylene [1]	92.0	30-150							
Tetrachloro-m-xylene [2]	87.7	30-150							

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-5

Sampled: 8/24/2017 11:10

Sample ID: 17H1359-08

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	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1221 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1232 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1242 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1248 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1254 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1260 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1262 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1268 [2]	0.47	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	118	30-150							
Decachlorobiphenyl [2]	99.6	30-150							
Tetrachloro-m-xylene [1]	112	30-150							
Tetrachloro-m-xylene [2]	75.4	30-150							

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-17

Sampled: 8/24/2017 11:20

Sample ID: 17H1359-09

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	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.3	30-150						9/5/17 16:37	
Decachlorobiphenyl [2]	82.4	30-150						9/5/17 16:37	
Tetrachloro-m-xylene [1]	99.7	30-150						9/5/17 16:37	
Tetrachloro-m-xylene [2]	72.5	30-150						9/5/17 16:37	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-1

Sampled: 8/24/2017 11:30

Sample ID: 17H1359-10

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	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.8	30-150							
Decachlorobiphenyl [2]	84.2	30-150							
Tetrachloro-m-xylene [1]	95.7	30-150							
Tetrachloro-m-xylene [2]	71.4	30-150							

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-2

Sampled: 8/24/2017 11:40

Sample ID: 17H1359-11

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	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.8	30-150						9/5/17 17:12	
Decachlorobiphenyl [2]	72.6	30-150						9/5/17 17:12	
Tetrachloro-m-xylene [1]	73.0	30-150						9/5/17 17:12	
Tetrachloro-m-xylene [2]	64.5	30-150						9/5/17 17:12	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-3

Sampled: 8/24/2017 11:50

Sample ID: 17H1359-12

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	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1221 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1232 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1242 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1248 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1254 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1260 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1262 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1268 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.9	30-150						9/5/17 17:30	
Decachlorobiphenyl [2]	68.7	30-150						9/5/17 17:30	
Tetrachloro-m-xylene [1]	68.0	30-150						9/5/17 17:30	
Tetrachloro-m-xylene [2]	63.5	30-150						9/5/17 17:30	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-4

Sampled: 8/24/2017 12:00

Sample ID: 17H1359-13

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	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1221 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1232 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1242 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1248 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1254 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1260 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1262 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1268 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.6	30-150						9/5/17 17:47	
Decachlorobiphenyl [2]	77.0	30-150						9/5/17 17:47	
Tetrachloro-m-xylene [1]	83.1	30-150						9/5/17 17:47	
Tetrachloro-m-xylene [2]	69.5	30-150						9/5/17 17:47	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-DUP-18

Sampled: 8/24/2017 00:00

Sample ID: 17H1359-14

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	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1268 [2]	0.40	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	92.9	30-150						9/5/17 18:05	
Decachlorobiphenyl [2]	84.6	30-150						9/5/17 18:05	
Tetrachloro-m-xylene [1]	93.8	30-150						9/5/17 18:05	
Tetrachloro-m-xylene [2]	67.0	30-150						9/5/17 18:05	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43

Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1248 [1]	0.36	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1254 [2]	0.37	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1260 [2]	0.31	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.2	30-150						9/9/17 7:46	
Decachlorobiphenyl [2]	100	30-150						9/9/17 7:46	
Tetrachloro-m-xylene [1]	92.7	30-150						9/9/17 7:46	
Tetrachloro-m-xylene [2]	96.1	30-150						9/9/17 7:46	

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43

Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	27.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44

Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1248 [1]	0.55	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1254 [2]	0.72	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1260 [2]	0.40	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.6	30-150							
Decachlorobiphenyl [2]	110	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44

Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	43.9		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45

Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1221 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1232 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1242 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1248 [1]	4.6	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1254 [2]	4.0	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1260 [2]	1.3	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1262 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1268 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.7	30-150						9/9/17 8:22	
Decachlorobiphenyl [2]	104	30-150						9/9/17 8:22	
Tetrachloro-m-xylene [1]	111	30-150						9/9/17 8:22	
Tetrachloro-m-xylene [2]	98.7	30-150						9/9/17 8:22	

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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45

Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	31.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46

Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1248 [2]	0.81	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1254 [2]	0.90	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1260 [2]	0.45	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.6	30-150						9/9/17 8:40	
Decachlorobiphenyl [2]	109	30-150						9/9/17 8:40	
Tetrachloro-m-xylene [1]	86.4	30-150						9/9/17 8:40	
Tetrachloro-m-xylene [2]	98.4	30-150						9/9/17 8:40	

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46

Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	41.6		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47

Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1248 [2]	0.97	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1254 [2]	1.0	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1260 [2]	0.55	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.8	30-150						9/9/17 8:58	
Decachlorobiphenyl [2]	101	30-150						9/9/17 8:58	
Tetrachloro-m-xylene [1]	93.0	30-150						9/9/17 8:58	
Tetrachloro-m-xylene [2]	95.9	30-150						9/9/17 8:58	

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47

Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	38.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48

Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1260 [2]	0.30	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.9	30-150						9/9/17 9:16	
Decachlorobiphenyl [2]	95.8	30-150						9/9/17 9:16	
Tetrachloro-m-xylene [1]	80.2	30-150						9/9/17 9:16	
Tetrachloro-m-xylene [2]	87.6	30-150						9/9/17 9:16	

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48

Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	37.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-50

Sampled: 8/24/2017 08:00

Sample ID: 17H1359-21

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	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	61.0	30-150							
Decachlorobiphenyl [2]	54.0	30-150							
Tetrachloro-m-xylene [1]	70.7	30-150							
Tetrachloro-m-xylene [2]	70.8	30-150							

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

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

Sample Description:

Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-51

Sampled: 8/24/2017 10:00

Sample ID: 17H1359-22

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	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.6	30-150						9/1/17 14:32	
Decachlorobiphenyl [2]	61.9	30-150						9/1/17 14:32	
Tetrachloro-m-xylene [1]	95.0	30-150						9/1/17 14:32	
Tetrachloro-m-xylene [2]	90.2	30-150						9/1/17 14:32	

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
17H1359-15 [WS-AOC-14-SE-43]	B185198	08/30/17
17H1359-16 [WS-AOC-14-SE-44]	B185198	08/30/17
17H1359-17 [WS-AOC-14-SE-45]	B185198	08/30/17
17H1359-18 [WS-AOC-14-SE-46]	B185198	08/30/17
17H1359-19 [WS-AOC-14-SE-47]	B185198	08/30/17
17H1359-20 [WS-AOC-14-SE-48]	B185198	08/30/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-08 [WS-AOC-12E-CO-5]	B185080	2.69	10.0	08/29/17
17H1359-09 [WS-AOC-12E-CO-17]	B185080	2.30	10.0	08/29/17
17H1359-10 [WS-AOC-6-CO-1]	B185080	2.39	10.0	08/29/17
17H1359-11 [WS-AOC-6-CO-2]	B185080	2.06	10.0	08/29/17
17H1359-12 [WS-AOC-6-CO-3]	B185080	2.56	10.0	08/29/17
17H1359-13 [WS-AOC-6-CO-4]	B185080	2.77	10.0	08/29/17
17H1359-14 [WS-AOC-12E-CO-DUP-18]	B185080	2.45	10.0	08/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-01 [WS-AOC-12E-AS-41]	B185083	10.0	10.0	08/29/17
17H1359-02 [WS-AOC-12E-AS-39]	B185083	10.0	10.0	08/29/17
17H1359-03 [WS-AOC-12E-AS-37]	B185083	10.2	10.0	08/29/17
17H1359-05 [WS-AOC-12E-AS-25]	B185083	10.0	10.0	08/29/17
17H1359-06 [WS-AOC-12E-AS-24]	B185083	10.2	10.0	08/29/17
17H1359-07 [WS-AOC-12E-AS-21]	B185083	10.0	10.0	08/29/17
17H1359-15 [WS-AOC-14-SE-43]	B185083	10.1	10.0	08/29/17
17H1359-16 [WS-AOC-14-SE-44]	B185083	10.0	10.0	08/29/17
17H1359-17 [WS-AOC-14-SE-45]	B185083	10.0	10.0	08/29/17
17H1359-18 [WS-AOC-14-SE-46]	B185083	10.0	10.0	08/29/17
17H1359-19 [WS-AOC-14-SE-47]	B185083	10.1	10.0	08/29/17
17H1359-20 [WS-AOC-14-SE-48]	B185083	10.1	10.0	08/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-04RE1 [WS-AOC-12E-AS-35]	B185232	10.0	10.0	08/30/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1359-21 [EB-50]	B185250	1000	10.0	08/30/17
17H1359-22 [EB-51]	B185250	1000	10.0	08/30/17

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

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 B185250 - SW-846 3510C										
Blank (B185250-BLK1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
Aroclor-1016	ND	0.20	µg/L							R-05
Aroclor-1016 [2C]	ND	0.20	µg/L							R-05
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							R-05
Aroclor-1260 [2C]	ND	0.20	µg/L							R-05
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	2.03		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.66		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.4	30-150			
LCS (B185250-BS1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
Aroclor-1016	0.46	0.20	µg/L	0.500		92.6	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.6	40-140			R-05
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140			R-05
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.3	40-140			R-05
Surrogate: Decachlorobiphenyl	2.12		µg/L	2.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.84		µg/L	2.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.71		µg/L	2.00		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.65		µg/L	2.00		82.7	30-150			
LCS Dup (B185250-BSD1)										
Prepared: 08/30/17 Analyzed: 09/01/17										
Aroclor-1016	0.36	0.20	µg/L	0.500		71.7	40-140	25.5	* 20	R-05
Aroclor-1016 [2C]	0.38	0.20	µg/L	0.500		76.3	40-140	23.5	* 20	R-05
Aroclor-1260	0.34	0.20	µg/L	0.500		68.6	40-140	27.2	* 20	R-05
Aroclor-1260 [2C]	0.34	0.20	µg/L	0.500		67.3	40-140	24.8	* 20	R-05
Surrogate: Decachlorobiphenyl	1.50		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.32		µg/L	2.00		66.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.31		µg/L	2.00		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.1	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
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Batch B185080 - SW-846 3540C
Blank (B185080-BLK1)

Prepared: 08/29/17 Analyzed: 09/05/17

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	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.957		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.807		mg/Kg	1.00		80.7	30-150			

LCS (B185080-BS1)

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		79.7	40-140			
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		78.3	40-140			
Surrogate: Decachlorobiphenyl	0.872		mg/Kg	1.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.818		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.880		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.697		mg/Kg	1.00		69.7	30-150			

LCS Dup (B185080-BSD1)

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.6	40-140	7.81	30	
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		86.1	40-140	7.71	30	
Aroclor-1260	0.85	0.10	mg/Kg	1.00		85.4	40-140	10.3	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.3	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	0.990		mg/Kg	1.00		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.932		mg/Kg	1.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.972		mg/Kg	1.00		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.710		mg/Kg	1.00		71.0	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
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Batch B185080 - SW-846 3540C
Matrix Spike (B185080-MS1)
Source: 17H1359-12

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.79	0.091	mg/Kg	0.909	ND	86.9	40-140			
Aroclor-1016 [2C]	0.66	0.091	mg/Kg	0.909	ND	72.8	40-140			
Aroclor-1260	0.61	0.091	mg/Kg	0.909	ND	67.5	40-140			
Aroclor-1260 [2C]	0.58	0.091	mg/Kg	0.909	ND	63.8	40-140			
Surrogate: Decachlorobiphenyl	0.802		mg/Kg	0.909		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.868		mg/Kg	0.909		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.843		mg/Kg	0.909		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.663		mg/Kg	0.909		72.9	30-150			

Matrix Spike Dup (B185080-MSD1)
Source: 17H1359-12

Prepared: 08/29/17 Analyzed: 09/05/17

Aroclor-1016	0.76	0.089	mg/Kg	0.889	ND	85.1	40-140	4.37	50	
Aroclor-1016 [2C]	0.68	0.089	mg/Kg	0.889	ND	76.3	40-140	2.36	50	
Aroclor-1260	0.64	0.089	mg/Kg	0.889	ND	71.4	40-140	3.44	50	
Aroclor-1260 [2C]	0.62	0.089	mg/Kg	0.889	ND	70.3	40-140	7.49	50	
Surrogate: Decachlorobiphenyl	0.765		mg/Kg	0.889		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.712		mg/Kg	0.889		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.838		mg/Kg	0.889		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.628		mg/Kg	0.889		70.6	30-150			

Batch B185083 - SW-846 3540C
Blank (B185083-BLK1)

Prepared: 08/29/17 Analyzed: 09/07/17

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							V-05
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							V-05
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	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.142		mg/Kg wet	0.200		70.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	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
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Batch B185083 - SW-846 3540C
LCS (B185083-BS1)

Prepared: 08/29/17 Analyzed: 09/07/17

Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		66.8	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		69.6	40-140			
Aroclor-1260	0.12	0.020	mg/Kg wet	0.200		58.1	40-140			V-05
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.4	40-140			V-05
Surrogate: Decachlorobiphenyl	0.125		mg/Kg wet	0.200		62.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.137		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.7	30-150			

LCS Dup (B185083-BSD1)

Prepared: 08/29/17 Analyzed: 09/07/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140	16.2	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	18.9	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.3	40-140	23.1	30	V-05
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140	20.3	30	V-05
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.113		mg/Kg wet	0.200		56.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		77.0	30-150			

Batch B185232 - SW-846 3540C
Blank (B185232-BLK1)

Prepared: 08/30/17 Analyzed: 09/05/17

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	0.199		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.183		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		100	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
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Batch B185232 - SW-846 3540C

LCS (B185232-BS1)

Prepared: 08/30/17 Analyzed: 09/05/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.3	40-140			
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		111	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		105	30-150			

LCS Dup (B185232-BSD1)

Prepared: 08/30/17 Analyzed: 09/05/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	2.75	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		108	40-140	2.73	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		92.0	40-140	0.372	30	
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

WS-AOC-12E-AS-39

SW-846 8082A

Lab Sample ID: 17H1359-02 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-AS-35**

Lab Sample ID: 17H1359-04RE1 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
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	0.11	
	2	0.000	-0.030	0.030	0.14	24.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
WS-AOC-12E-AS-25

Lab Sample ID: 17H1359-05 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.10	
	2	0.000	-0.030	0.030	0.091	9.4
Aroclor-1268	1	0.000	-0.030	0.030	0.085	
	2	0.000	-0.030	0.030	0.087	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-AS-24**

Lab Sample ID: 17H1359-06 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
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	0.12	15.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-AS-21**

Lab Sample ID: 17H1359-07 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
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	0.16	
	2	0.000	-0.030	0.030	0.14	13.3
Aroclor-1268	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-12E-CO-5**

Lab Sample ID: 17H1359-08 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.47	2.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12E-CO-DUP-18***SW-846 8082A*

Lab Sample ID: 17H1359-14 Date(s) Analyzed 09/05/2017 09/05/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.40	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-14-SE-43***SW-846 8082A*

Lab Sample ID: 17H1359-15 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
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	0.32	
	2	0.000	-0.030	0.030	0.37	14.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-44

Lab Sample ID: 17H1359-16 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.51	7.6
Aroclor-1254	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.72	16.5
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.40	22.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-45

Lab Sample ID: 17H1359-17 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	4.6	
	2	0.000	-0.030	0.030	4.3	6.7
Aroclor-1254	1	0.000	-0.030	0.030	3.6	
	2	0.000	-0.030	0.030	4.0	10.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-46

Lab Sample ID: 17H1359-18 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.80	
	2	0.000	-0.030	0.030	0.81	1.2
Aroclor-1254	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.90	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.45	25.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-47

Lab Sample ID: 17H1359-19 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.96	
	2	0.000	-0.030	0.030	0.97	1.0
Aroclor-1254	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	1.0	24.7
Aroclor-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.55	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-14-SE-48***SW-846 8082A*

Lab Sample ID: 17H1359-20 Date(s) Analyzed 09/09/2017 09/09/2017
Instrument ID (1): ECD5 Instrument ID (2): ECD5
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	0.27	
	2	0.000	-0.030	0.030	0.30	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185080-BS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.80	4.9
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.78	1.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185080-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.86	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.87	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
Matrix Spike

Lab Sample ID: B185080-MS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.66	17.9
Aroclor-1260	1	0.000	0.000	0.000	0.61	
	2	0.000	0.000	0.000	0.58	5.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B185080-MSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.68	11.1
Aroclor-1260	1	0.000	0.000	0.000	0.64	
	2	0.000	0.000	0.000	0.62	3.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS**

Lab Sample ID: B185083-BS1 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.14	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.12	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**

Lab Sample ID: B185083-BSD1 Date(s) Analyzed 09/07/2017 09/07/2017
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185232-BS1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	9.5
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185232-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185250-BS1 Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.48	4.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.43	4.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185250-BSD1 Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.38	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.34	
	2	0.000	0.000	0.000	0.34	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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.
O-28	Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
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
<i>SW-846 8082A in Soil</i>	
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
<i>SW-846 8082A in Water</i>	
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
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

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 Public 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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ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky 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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Beethuis (Will Sirotnak)

Sampled By: Chris Beethuis (Will Sirotnak)

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-12E-AS-41	8/24/17	1000	X		0	U
2	WS-AOC-12E-AS-39		1010				
3	WS-AOC-12E-AS-37		1020				
4	WS-AOC-12E-AS-35		1030				
5	WS-AOC-12E-AS-25		1040				
6	WS-AOC-12E-AS-24		1050				
7	WS-AOC-12E-AS-21		1100				
8	WS-AOC-12E-60-5		1110				
9	WS-AOC-12E-60-17		1120				
10	WS-AOC-6-60-1		1130				

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: 8/24/17 1500	Detection Limit Requirements MA CT 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
Received by: (signature)	Date/Time: 8/24/17 1500			
Relinquished by: (signature)	Date/Time: 8/24/17 1515			
Received by: (signature)	Date/Time: 8/24/17 1515			
Relinquished by: (signature)	Date/Time: 8/24/17 1515	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	
Received by: (signature)	Date/Time: 8/24/17 1825			

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 3



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: **Weston & Sampson**
 Address: **273 Dividend Rd, Rocky 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 Quote Name/Number: **Malcolm Beeler (Weston & Sampson)**
 Invoice Recipient: **William Sirotnak**
 Sampled By: **William Sirotnak**

Requested Turnaround Time: ☒ 7-Day ☐ 10-Day
 Due Date: ☐ 1-Day ☐ 3-Day ☐ 4-Day
 Rush-Approval Required: ☐
 Data Delivery: ☒ EXCEL ☐
 Format: PDF ☒ EXCEL ☐
 Other: ☐
 CLP Like Data Pkg Required: ☐
 Email To: **beelerm@wse.com**
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADL-6-60-2	8/24/17	1140	X		D	U
12	WS-ADL-6-60-3		1150				
13	WS-ADL-6-60-4		1200				
14	WS-ADL-DE-60-DR-18						
15	WS-ADL-14-SE-43		1300	X		S	U
16	WS-ADL-14-SE-44		1310				
17	WS-ADL-14-SE-45		1320				
18	WS-ADL-14-SE-46		1330				
19	WS-ADL-14-SE-47		1340				
20	WS-ADL-14-SE-48		1350				

Comments:

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

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time	Detection Limit Requirements	Special Requirements
Received by: (signature)	8/24/17 1500	MA	MA MCP Required
Relinquished by: (signature)	8/24/17 1500		MCP Certification Form Required
Received by: (signature)	8/24/17 1555	CT	CT RCP Required
Relinquished by: (signature)	8/24/17 1555		RCP Certification Form Required
Received by: (signature)	8/24/17 1555		MA State DW Required
Relinquished by: (signature)	8/24/17 1555		PWSID #



NELAP and AIHA-LAP, LLC Accredited

Project Entity

☐ Government
☐ Federal
☐ City

☐ Municipality
☐ 21 J
☐ Brownfield

☐ MWRA
☐ School
☐ MBTA

☐ WRTA
☐ AIHA-LAP, LLC

Other

☐ Chromatogram
☐ Non Soxhlet

PCB ONLY

☐ Soxhlet
☐ Non Soxhlet

39 Spruce St.
East Longmeadow, MA. 01028
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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 SM Date 8/24/17 Time 1825

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 - 5.1
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 Client T Analysis T Sampler Name T
pertinent Information? 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? 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.	<u>4</u>	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	<u>6</u>
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	<u>16</u>
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:



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: 17H1359

Laboratory Sample ID(s):

17H1359-01 thru 17H1359-22

Sample Date(s):

08/24/2017

List RCP Methods Used:

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:
Position: Project Manager
Printed Name: Lisa A. Worthington
Date: 09/12/17
Name of Laboratory: Con-Test Analytical Laboratory

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

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,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

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: 9/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710317

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	1710317-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-2	1710317-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-35-3	1710317-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-1	1710317-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-2	1710317-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-32-3	1710317-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-1	1710317-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-2	1710317-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-3	1710317-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-11-4	1710317-10	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-1	1710317-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-2	1710317-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-3	1710317-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-6-4	1710317-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-1	1710317-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-2	1710317-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-3	1710317-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-12-4	1710317-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & 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: 1710317

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	1710317-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-6-SO-5-2	1710317-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A	

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

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							
Decachlorobiphenyl [2]	97.2	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-1

Sampled: 9/8/2017 09:38

Sample ID: 1710317-01

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

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							
Decachlorobiphenyl [2]	91.6	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-2

Sampled: 9/8/2017 09:39

Sample ID: 1710317-02

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

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							
Decachlorobiphenyl [2]	90.3	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-35-3

Sampled: 9/8/2017 09:40

Sample ID: 1710317-03

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

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							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-1

Sampled: 9/8/2017 09:30

Sample ID: 1710317-04

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-2

Sampled: 9/8/2017 09:31

Sample ID: 1710317-05

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-32-3

Sampled: 9/8/2017 09:32

Sample ID: 1710317-06

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

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							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	104	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-1

Sampled: 9/8/2017 10:23

Sample ID: 1710317-07

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

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							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	99.7	30-150							
Tetrachloro-m-xylene [2]	98.7	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-2

Sampled: 9/8/2017 10:24

Sample ID: 1710317-08

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

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							
Decachlorobiphenyl [2]	124	30-150							
Tetrachloro-m-xylene [1]	84.3	30-150							
Tetrachloro-m-xylene [2]	89.1	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-3

Sampled: 9/8/2017 10:25

Sample ID: 1710317-09

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

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							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	87.5	30-150							
Tetrachloro-m-xylene [2]	90.4	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-11-4

Sampled: 9/8/2017 10:26

Sample ID: 1710317-10

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

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							
Decachlorobiphenyl [2]	88.7	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	95.8	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-1

Sampled: 9/8/2017 10:20

Sample ID: 1710317-11

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

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							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	95.9	30-150							
Tetrachloro-m-xylene [2]	97.6	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-2

Sampled: 9/8/2017 10:21

Sample ID: 1710317-12

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

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							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-3

Sampled: 9/8/2017 10:22

Sample ID: 1710317-13

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

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							
Decachlorobiphenyl [2]	95.8	30-150							
Tetrachloro-m-xylene [1]	96.2	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-6-4

Sampled: 9/8/2017 10:23

Sample ID: 1710317-14

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-1

Sampled: 9/8/2017 10:40

Sample ID: 1710317-15

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

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							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	96.8	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-2

Sampled: 9/8/2017 10:41

Sample ID: 1710317-16

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

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							
Decachlorobiphenyl [2]	95.9	30-150							
Tetrachloro-m-xylene [1]	97.8	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-3

Sampled: 9/8/2017 10:42

Sample ID: 1710317-17

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

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							
Decachlorobiphenyl [2]	96.6	30-150							
Tetrachloro-m-xylene [1]	84.6	30-150							
Tetrachloro-m-xylene [2]	90.9	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-12-4

Sampled: 9/8/2017 10:43

Sample ID: 1710317-18

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

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							
Decachlorobiphenyl [2]	97.1	30-150							
Tetrachloro-m-xylene [1]	96.7	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-1

Sampled: 9/8/2017 10:45

Sample ID: 1710317-19

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

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

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							
Decachlorobiphenyl [2]	96.4	30-150							
Tetrachloro-m-xylene [1]	99.3	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

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	

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

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

Sample Description:

Work Order: 1710317

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-5-2

Sampled: 9/8/2017 10:46

Sample ID: 1710317-20

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

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
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
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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	

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

**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

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

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****WS-AOC-6-SO-12-4***SW-846 8082A*

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

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

**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

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

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 Public 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

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 #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC-15-SD-35-1	9/18/17	0930		X	S	U
2	WS-AOC-15-SD-35-2	9/18/17	0939		X	S	U
3	WS-AOC-15-SD-35-3	9/18/17	0940		X	S	U
4	WS-AOC-15-SD-32-1	9/18/17	0930		X	S	U
5	WS-AOC-15-SD-32-2	9/18/17	0931		X	S	U
6	WS-AOC-15-SD-32-3	9/18/17	0932		X	S	U
7	WS-AOC-6-SD-11-1	9/18/17	1023		X	S	U
8	WS-AOC-6-SD-11-2	9/18/17	1024		X	S	U
9	WS-AOC-6-SD-11-3	9/18/17	1025		X	S	U
10	WS-AOC-6-SD-11-4	9/18/17	1026		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.

222m to MS/MSO for WS-AOC-6-SD-11-2 and WS-AOC-6-SD-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:	Detection Limit Requirements	
Received by: (signature)		9/18/17 1520	MA	
Relinquished by: (signature)		9/18/17 1520	CT	
Received by: (signature)		9/18/17 1540	RES DEC	
Relinquished by: (signature)		9/18/17 1545	Other:	
Received by: (signature)		9/18/17 1706	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.	
Relinquished by: (signature)		9/18/17 1706	PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT	

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



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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 Sirotak

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 #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-POL-6-30-6-1	9/8/17	1020		X	S	2
12	WS-POL-6-30-6-2		1021				
13	WS-POL-6-30-6-3		1022				
14	WS-POL-6-30-6-4		1023				
15	WS-POL-6-30-12-1		1040				
16	WS-POL-6-30-12-2		1041				
17	WS-POL-6-30-12-3		1042				
18	WS-POL-6-30-12-4		1043				
19	WS-POL-6-30-5-1		1045				
20	WS-POL-6-30-5-2		1046				

Comments:

Please hold excess volumes for possible SPLP analyses.

PLEASE DO MS/MSD FOR WS-POL-6-30-6-2 FOR PCBs & EPH. PLEASE DO MS/MSD FOR WS-POL-6-30-12-2 FOR PCBs.

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 1545

Relinquished by: (signature)

Date/Time: 9/8/17 17:06

Received by: (signature)

Date/Time: 9/8/17 1706

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

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

39 Spruce St.
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
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
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

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:
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.

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: 17I0175

Enclosed are results of analyses for samples received by the laboratory on September 6, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal stroke extending to the right.

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: 1710175

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-2-2	1710175-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-2-3	1710175-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-1	1710175-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-2	1710175-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-7-3	1710175-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-52-1	1710175-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-52-2	1710175-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-1	1710175-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-2	1710175-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-SO-45-3	1710175-10	Soil		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:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

CT ETPH

B186051-BS1

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

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	9/12/17	9/18/17 16:55	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.3	30-150						9/18/17 16:55	
Decachlorobiphenyl [2]	87.8	30-150						9/18/17 16:55	
Tetrachloro-m-xylene [1]	80.4	30-150						9/18/17 16:55	
Tetrachloro-m-xylene [2]	90.9	30-150						9/18/17 16:55	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	68	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/13/17 18:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	52.8		50-150					9/13/17 18:04	

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2

Sampled: 9/6/2017 13:23

Sample ID: 1710175-01

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	89.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3

Sampled: 9/6/2017 13:24

Sample ID: 1710175-02

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	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.1	30-150						9/18/17 17:08	
Decachlorobiphenyl [2]	89.1	30-150						9/18/17 17:08	
Tetrachloro-m-xylene [1]	83.5	30-150						9/18/17 17:08	
Tetrachloro-m-xylene [2]	95.7	30-150						9/18/17 17:08	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3

Sampled: 9/6/2017 13:24

Sample ID: 1710175-02

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	90.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.1	30-150						9/18/17 17:20	
Decachlorobiphenyl [2]	87.0	30-150						9/18/17 17:20	
Tetrachloro-m-xylene [1]	90.6	30-150						9/18/17 17:20	
Tetrachloro-m-xylene [2]	102	30-150						9/18/17 17:20	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	100	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 18:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	68.6		50-150					9/13/17 18:22	

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1

Sampled: 9/6/2017 13:33

Sample ID: 1710175-03

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	95.7		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2

Sampled: 9/6/2017 13:34

Sample ID: 1710175-04

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	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.3	30-150							
Decachlorobiphenyl [2]	91.9	30-150							
Tetrachloro-m-xylene [1]	78.9	30-150							
Tetrachloro-m-xylene [2]	89.5	30-150							

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2

Sampled: 9/6/2017 13:34

Sample ID: 1710175-04

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	92.8		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3

Sampled: 9/6/2017 13:35

Sample ID: 1710175-05

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	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.9	30-150							
Decachlorobiphenyl [2]	85.0	30-150							
Tetrachloro-m-xylene [1]	90.6	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3

Sampled: 9/6/2017 13:35

Sample ID: 1710175-05

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	87.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1

Sampled: 9/5/2017 15:18

Sample ID: 1710175-06

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	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.4	30-150						9/18/17 17:58	
Decachlorobiphenyl [2]	63.6	30-150						9/18/17 17:58	
Tetrachloro-m-xylene [1]	77.5	30-150						9/18/17 17:58	
Tetrachloro-m-xylene [2]	84.1	30-150						9/18/17 17:58	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1

Sampled: 9/5/2017 15:18

Sample ID: 1710175-06

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	94.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2

Sampled: 9/5/2017 15:19

Sample ID: 1710175-07

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	9/12/17	9/18/17 18:11	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	60.1	30-150							
Tetrachloro-m-xylene [1]	88.2	30-150							
Tetrachloro-m-xylene [2]	98.8	30-150							

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2

Sampled: 9/5/2017 15:19

Sample ID: 1710175-07

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	95.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

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	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150							
Decachlorobiphenyl [2]	63.8	30-150							
Tetrachloro-m-xylene [1]	86.4	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/14/17 10:12	SCS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
o-Terphenyl	56.1	50-150						9/14/17 10:12	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1

Sampled: 9/5/2017 15:26

Sample ID: 1710175-08

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	89.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2

Sampled: 9/5/2017 15:27

Sample ID: 1710175-09

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	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.2	30-150						9/18/17 18:36	
Decachlorobiphenyl [2]	70.3	30-150						9/18/17 18:36	
Tetrachloro-m-xylene [1]	86.6	30-150						9/18/17 18:36	
Tetrachloro-m-xylene [2]	102	30-150						9/18/17 18:36	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2

Sampled: 9/5/2017 15:27

Sample ID: 1710175-09

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	89.3		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3

Sampled: 9/5/2017 15:34

Sample ID: 1710175-10

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	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150						9/18/17 18:49	
Decachlorobiphenyl [2]	79.5	30-150						9/18/17 18:49	
Tetrachloro-m-xylene [1]	88.5	30-150						9/18/17 18:49	
Tetrachloro-m-xylene [2]	101	30-150						9/18/17 18:49	

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

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

Sample Description:

Work Order: 1710175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3

Sampled: 9/5/2017 15:34

Sample ID: 1710175-10

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	66.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	MRL

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
17I0175-01 [WS-AOC-15-SO-2-2]	B186051	30.0	1.00	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B186051	30.0	1.00	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185999	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185999	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185999	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185999	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185999	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185999	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185999	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185999	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185999	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185999	09/12/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185991	10.0	10.0	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185991	10.0	10.0	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185991	10.0	10.0	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185991	10.0	10.0	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185991	10.0	10.0	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185991	10.0	10.0	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185991	10.0	10.0	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185991	10.0	10.0	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185991	10.0	10.0	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185991	10.0	10.0	09/12/17

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

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
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Batch B185991 - SW-846 3540C
Blank (B185991-BLK1)

Prepared: 09/12/17 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	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.0	30-150			

LCS (B185991-BS1)

Prepared: 09/12/17 Analyzed: 09/18/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.183		mg/Kg wet	0.200		91.4	30-150			

LCS Dup (B185991-BS1)

Prepared: 09/12/17 Analyzed: 09/18/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	4.07	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	3.01	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	3.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.61	30	
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.0	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 B186051 - SW-846 3546										
Blank (B186051-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.76		mg/Kg wet	3.33		82.8	50-150			
LCS (B186051-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	19.8	10	mg/Kg wet	33.3		59.3	* 60-120			L-07
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
LCS Dup (B186051-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8	60-120	13.3	30	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.8	50-150			

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

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.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

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 Public 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

1710175



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky 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 Sirotinak

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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-ADC-1532-2	9/16/17 1323			X	S	V
2	WS-ADC-1532-3	9/16/17 1324			X	S	V
3	WS-ADC-1537-1	9/16/17 1333			X	S	V
4	WS-ADC-1537-2	9/16/17 1334			X	S	V
5	WS-ADC-1537-3	9/16/17 1335			X	S	V
6	WS-ADC-12E-50-52-1	9/5/17 1513			X	S	V
7	WS-ADC-12E-50-52-2	9/5/17 1519			X	S	V
8	WS-ADC-12E-50-45-1	1524			X	S	V
9	WS-ADC-12E-20-45-2	1527			X	S	V
10	WS-ADC-12E-50-45-3	1534			X	S	V

Comments:

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

Please hold excess volumes for possible SPLP analyses.

Detection Limit Requirements

Date/Time: 9/16/17 1430

Date/Time: 9/16/17 1430

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

Date/Time: 9/16/17 1630

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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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)

39 Spruce St.
East Longmeadow, MA. 01028
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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 9/6/17 Time 1630

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 - 3.1
By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tapered 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 Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A
Are there Rushes? N/A
Are there Short Holds? N/A
Is there enough Volume? T
Is there Headspace where applicable? N/A
Proper Media/Containers Used? T
Were trip blanks received? N/A
Do all samples have the proper pH? N/A

Who was notified?
Who was notified?
Who was notified?

MS/MSD? N/A
Is splitting samples required? N/A
On COC? 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
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\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/13/17
 Data File Name A0913007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
 17I0175-03@10X
 17I0177-17@10X

D:\HPCHEM\1\DATA\A091317\A0913108.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0913108.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	553300	590564	-6
c - 10	1.64	561513	590564	-5
c - 12	2.37	575104	590564	-3
c - 14	3.04	585879	590564	-1
c - 16	3.65	600478	590564	2
c - 18	4.29	597328	590564	1
o-Terphenyl	4.57	669326	590564	
c - 20	4.89	609508	590564	3
c - 22	5.40	625539	590564	6
c - 24	5.83	589170	590564	0
c - 26	6.23	623817	590564	6
c - 28	6.59	615149	590564	4
c - 30	6.92	604930	590564	2
c - 32	7.23	579634	590564	-2
c - 34	7.53	572069	590564	-3
c - 36	7.87	565044	590564	-4

* One compound allowed %D <= 50%

Samples

1710175-08
 1710248-02



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: 17I0175

Laboratory Sample ID(s):

17I0175-01 thru 17I0175-10

Sample Date(s):

09/05/2017,

09/06/2017

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:
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.

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: 17I0177

Enclosed are results of analyses for samples received by the laboratory on September 6, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 1710177

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-12E-S0-49-1	1710177-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-49-2	1710177-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-49-3	1710177-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-1	1710177-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-2	1710177-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-37-3	1710177-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-1	1710177-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-2	1710177-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-51-3	1710177-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-1	1710177-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-2	1710177-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-39-3	1710177-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-1	1710177-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-2	1710177-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-41-3	1710177-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-1	1710177-16	Soil		SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-2	1710177-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-12E-S0-48-3	1710177-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & 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: 1710177

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-12E-S0-DUP-48	1710177-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-S0-2-1	1710177-20	Soil		SM 2540G SW-846 8082A	

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:****L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**CT ETPH**

B186051-BS1

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**

17I0177-04[WS-AOC-12E-S0-37-1], 17I0177-10[WS-AOC-12E-S0-39-1]

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

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1

Sampled: 9/6/2017 09:29

Sample ID: 1710177-01

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	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.7	30-150							
Decachlorobiphenyl [2]	101	30-150							
Tetrachloro-m-xylene [1]	98.6	30-150							
Tetrachloro-m-xylene [2]	97.7	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1

Sampled: 9/6/2017 09:29

Sample ID: 1710177-01

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	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2

Sampled: 9/6/2017 09:30

Sample ID: 1710177-02

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.8	30-150							
Decachlorobiphenyl [2]	92.7	30-150							
Tetrachloro-m-xylene [1]	91.7	30-150							
Tetrachloro-m-xylene [2]	90.8	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2

Sampled: 9/6/2017 09:30

Sample ID: 1710177-02

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3

Sampled: 9/6/2017 09:31

Sample ID: 1710177-03

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	9/11/17	9/18/17 11:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.9	30-150						9/18/17 11:37	
Decachlorobiphenyl [2]	115	30-150						9/18/17 11:37	
Tetrachloro-m-xylene [1]	86.4	30-150						9/18/17 11:37	
Tetrachloro-m-xylene [2]	83.6	30-150						9/18/17 11:37	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3

Sampled: 9/6/2017 09:31

Sample ID: 1710177-03

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	70.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

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	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.5	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	95.6	30-150							
Tetrachloro-m-xylene [2]	94.7	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	230	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 20:03	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/14/17 20:03	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1

Sampled: 9/6/2017 09:53

Sample ID: 1710177-04

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	86.6		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

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	9/11/17	9/18/17 12:01	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.8	30-150					9/18/17 12:01	
Decachlorobiphenyl [2]		95.7	30-150					9/18/17 12:01	
Tetrachloro-m-xylene [1]		88.8	30-150					9/18/17 12:01	
Tetrachloro-m-xylene [2]		85.1	30-150					9/18/17 12:01	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	62	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 18:51	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	58.2		50-150					9/14/17 18:51	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2

Sampled: 9/6/2017 09:54

Sample ID: 1710177-05

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	80.1		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3

Sampled: 9/6/2017 10:15

Sample ID: 1710177-06

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.8	30-150							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	96.9	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3

Sampled: 9/6/2017 10:15

Sample ID: 1710177-06

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	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1

Sampled: 9/6/2017 10:49

Sample ID: 1710177-07

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	9/11/17	9/18/17 12:25	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.3	30-150						9/18/17 12:25	
Decachlorobiphenyl [2]	96.2	30-150						9/18/17 12:25	
Tetrachloro-m-xylene [1]	99.8	30-150						9/18/17 12:25	
Tetrachloro-m-xylene [2]	98.8	30-150						9/18/17 12:25	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1

Sampled: 9/6/2017 10:49

Sample ID: 1710177-07

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	90.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

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	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.3	30-150						9/18/17 12:37	
Decachlorobiphenyl [2]	91.6	30-150						9/18/17 12:37	
Tetrachloro-m-xylene [1]	92.9	30-150						9/18/17 12:37	
Tetrachloro-m-xylene [2]	90.1	30-150						9/18/17 12:37	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	59	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 19:09	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	59.3		50-150					9/14/17 19:09	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2

Sampled: 9/6/2017 10:50

Sample ID: 1710177-08

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	84.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3

Sampled: 9/6/2017 10:51

Sample ID: 1710177-09

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	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.5	30-150							
Decachlorobiphenyl [2]	98.5	30-150							
Tetrachloro-m-xylene [1]	93.9	30-150							
Tetrachloro-m-xylene [2]	89.1	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3

Sampled: 9/6/2017 10:51

Sample ID: 1710177-09

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	74.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

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	9/11/17	9/18/17 13:48	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.6	30-150						9/18/17 13:48	
Decachlorobiphenyl [2]	91.3	30-150						9/18/17 13:48	
Tetrachloro-m-xylene [1]	94.0	30-150						9/18/17 13:48	
Tetrachloro-m-xylene [2]	93.5	30-150						9/18/17 13:48	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	690	210	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 19:27	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/14/17 19:27	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1

Sampled: 9/6/2017 10:45

Sample ID: 1710177-10

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	93.5		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2

Sampled: 9/6/2017 10:46

Sample ID: 1710177-11

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.3	30-150						9/18/17 14:01	
Decachlorobiphenyl [2]	85.4	30-150						9/18/17 14:01	
Tetrachloro-m-xylene [1]	90.6	30-150						9/18/17 14:01	
Tetrachloro-m-xylene [2]	96.1	30-150						9/18/17 14:01	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2

Sampled: 9/6/2017 10:46

Sample ID: 1710177-11

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3

Sampled: 9/6/2017 10:47

Sample ID: 1710177-12

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	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.1	30-150						9/18/17 14:13	
Decachlorobiphenyl [2]	102	30-150						9/18/17 14:13	
Tetrachloro-m-xylene [1]	83.8	30-150						9/18/17 14:13	
Tetrachloro-m-xylene [2]	82.3	30-150						9/18/17 14:13	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3

Sampled: 9/6/2017 10:47

Sample ID: 1710177-12

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	73.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1

Sampled: 9/6/2017 11:07

Sample ID: 1710177-13

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.4	30-150						9/18/17 14:25	
Decachlorobiphenyl [2]	85.5	30-150						9/18/17 14:25	
Tetrachloro-m-xylene [1]	87.4	30-150						9/18/17 14:25	
Tetrachloro-m-xylene [2]	88.6	30-150						9/18/17 14:25	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1

Sampled: 9/6/2017 11:07

Sample ID: 1710177-13

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	88.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2

Sampled: 9/6/2017 11:08

Sample ID: 1710177-14

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.7	30-150						9/18/17 14:37	
Decachlorobiphenyl [2]	71.5	30-150						9/18/17 14:37	
Tetrachloro-m-xylene [1]	80.0	30-150						9/18/17 14:37	
Tetrachloro-m-xylene [2]	82.8	30-150						9/18/17 14:37	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2

Sampled: 9/6/2017 11:08

Sample ID: 1710177-14

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	88.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3

Sampled: 9/6/2017 11:09

Sample ID: 1710177-15

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	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.0	30-150							
Decachlorobiphenyl [2]	79.7	30-150							
Tetrachloro-m-xylene [1]	91.7	30-150							
Tetrachloro-m-xylene [2]	89.7	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3

Sampled: 9/6/2017 11:09

Sample ID: 1710177-15

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	78.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1

Sampled: 9/6/2017 11:00

Sample ID: 1710177-16

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	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.4	30-150							
Decachlorobiphenyl [2]	90.3	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	102	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1

Sampled: 9/6/2017 11:00

Sample ID: 1710177-16

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	94.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	73.9	30-150						9/18/17 15:14	
Decachlorobiphenyl [2]	97.4	30-150						9/18/17 15:14	
Tetrachloro-m-xylene [1]	97.9	30-150						9/18/17 15:14	
Tetrachloro-m-xylene [2]	96.3	30-150						9/18/17 15:14	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	360	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 19:52	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	57.3		50-150					9/13/17 19:52	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2

Sampled: 9/6/2017 11:01

Sample ID: 1710177-17

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	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3

Sampled: 9/6/2017 11:02

Sample ID: 1710177-18

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	9/11/17	9/18/17 15:26	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.3	30-150						9/18/17 15:26	
Decachlorobiphenyl [2]	86.8	30-150						9/18/17 15:26	
Tetrachloro-m-xylene [1]	92.6	30-150						9/18/17 15:26	
Tetrachloro-m-xylene [2]	89.0	30-150						9/18/17 15:26	

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3

Sampled: 9/6/2017 11:02

Sample ID: 1710177-18

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	81.4		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

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	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	66.0	30-150						9/18/17 15:38	
Decachlorobiphenyl [2]	77.7	30-150						9/18/17 15:38	
Tetrachloro-m-xylene [1]	85.8	30-150						9/18/17 15:38	
Tetrachloro-m-xylene [2]	82.1	30-150						9/18/17 15:38	

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: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/14/17 19:45	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	67.4		50-150			9/14/17 19:45			

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48

Sampled: 9/6/2017 00:00

Sample ID: 1710177-19

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	82.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1

Sampled: 9/6/2017 13:22

Sample ID: 1710177-20

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	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1268 [2]	0.15	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.5	30-150							
Decachlorobiphenyl [2]	92.5	30-150							
Tetrachloro-m-xylene [1]	90.0	30-150							
Tetrachloro-m-xylene [2]	92.5	30-150							

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

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

Sample Description:

Work Order: 1710177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1

Sampled: 9/6/2017 13:22

Sample ID: 1710177-20

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	93.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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
17I0177-04 [WS-AOC-12E-S0-37-1]	B186051	30.0	1.00	09/12/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B186051	30.0	1.00	09/12/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B186051	30.0	1.00	09/12/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B186051	30.0	1.00	09/12/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B186051	30.0	1.00	09/12/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185740	09/07/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185740	09/07/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185740	09/07/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185740	09/07/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185740	09/07/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185740	09/07/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185740	09/07/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185740	09/07/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185740	09/07/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185740	09/07/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185740	09/07/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185740	09/07/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185740	09/07/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185740	09/07/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185740	09/07/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185740	09/07/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185740	09/07/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185740	09/07/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185740	09/07/17
17I0177-20 [WS-AOC-15-S0-2-1]	B185740	09/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185967	10.0	10.0	09/11/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185967	10.0	10.0	09/11/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185967	10.0	10.0	09/11/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185967	10.0	10.0	09/11/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185967	10.0	10.0	09/11/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185967	10.0	10.0	09/11/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185967	10.0	10.0	09/11/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185967	10.0	10.0	09/11/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185967	10.0	10.0	09/11/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185967	10.0	10.0	09/11/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185967	10.0	10.0	09/11/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185967	10.0	10.0	09/11/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185967	10.0	10.0	09/11/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185967	10.0	10.0	09/11/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185967	10.0	10.0	09/11/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185967	10.0	10.0	09/11/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185967	10.0	10.0	09/11/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185967	10.0	10.0	09/11/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185967	10.0	10.0	09/11/17

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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
17I0177-20 [WS-AOC-15-S0-2-1]	B185967	10.0	10.0	09/11/17

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

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
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Batch B185967 - SW-846 3540C
Blank (B185967-BLK1)

Prepared: 09/11/17 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	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.3	30-150			

LCS (B185967-BS1)

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			

LCS Dup (B185967-BSD1)

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	0.207	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.1	40-140	1.96	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.49	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.79	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		88.2	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
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Batch B185967 - SW-846 3540C

Matrix Spike (B185967-MS1)

Source: 17I0177-12

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.11	mg/Kg dry	0.273	ND	71.0	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.273	ND	81.4	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	55.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.273	ND	63.1	40-140			
Surrogate: Decachlorobiphenyl	0.192		mg/Kg dry	0.273		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.398		mg/Kg dry	0.273		146	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg dry	0.273		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg dry	0.273		82.9	30-150			

Matrix Spike Dup (B185967-MSD1)

Source: 17I0177-12

Prepared: 09/11/17 Analyzed: 09/18/17

Aroclor-1016	0.17	0.11	mg/Kg dry	0.273	ND	61.9	40-140	13.6	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.273	ND	77.5	40-140	4.95	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	56.7	40-140	1.85	50	
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.273	ND	65.1	40-140	3.16	50	
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.273		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.269		mg/Kg dry	0.273		98.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.226		mg/Kg dry	0.273		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.227		mg/Kg dry	0.273		83.3	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 B186051 - SW-846 3546										
Blank (B186051-BLK1)					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.76		mg/Kg wet	3.33		82.8	50-150			
LCS (B186051-BS1)					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	19.8	10	mg/Kg wet	33.3		59.3	* 60-120			L-07
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
LCS Dup (B186051-BSD1)					Prepared: 09/12/17 Analyzed: 09/13/17					
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8	60-120	13.3	30	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.8	50-150			

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

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
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Batch B185740 - % Solids
Duplicate (B185740-DUP1)
Source: 1710177-11

Prepared: 09/07/17 Analyzed: 09/08/17

% Solids	90.7		% Wt		89.2			1.67	20	
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Duplicate (B185740-DUP2)
Source: 1710177-12

Prepared: 09/07/17 Analyzed: 09/08/17

% Solids	76.7		% Wt		73.3			4.53	20	
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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-15-S0-2-1***SW-846 8082A*

Lab Sample ID: 17I0177-20 Date(s) Analyzed: 09/18/2017 09/18/2017
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	0.15	14.3

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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.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
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.

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 Public 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

Phone: 413-525-2332
Fax: 413-525-6405



Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rocky 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 Sirotiak

CHAIN OF CUSTODY RECORD

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 #:

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADC-12E3839-2	9/16/17	1040		X	S	U
12	WS-ADC-12E3839-3	9/16/17	1047		X	S	U
13	WS-ADC-12E3841-1	9/16/17	1107		X	S	U
14	WS-ADC-12E3841-2	9/16/17	1103		X	S	U
15	WS-ADC-12E3841-3	9/16/17	1109		X	S	U
16	WS-ADC-12E3848-1	9/16/17	1100		X	S	U
17	WS-ADC-12E3848-2	9/16/17	1101		X	S	U
18	WS-ADC-12E3848-3	9/16/17	1102		X	S	U
19	WS-ADC-12E3848-DUP 48	9/16/17	-		X	S	U
20	WS-ADC-15382-1	9/16/17	1322		X	S	U

Comments:

Please hold excess volumes for possible SPLP analyses.
For WS-ADC-12E-39-3 please do MS/MSD

Relinquished by: (signature) *[Signature]* Date/Time: 9/16/17 1830
Received by: (signature) *[Signature]* Date/Time: 9/16/17 1930
Relinquished by: (signature) *[Signature]* Date/Time: 9/16/17 1630
Received by: (signature) *[Signature]* Date/Time: 9/16/17 1630
Relinquished by: (signature) *[Signature]* Date/Time: 9/16/17 1630
Received by: (signature) *[Signature]* Date/Time: 9/16/17 1630

Detection Limit Requirements
MA
GT
Other:

Program Information
☐ MCP Analytical Certification Form Required
☒ RCP Analytical Certification Form Required
☐ MA State DW Form Required
 PWSID # _____
 NELAC and AIHA-LAP, LLC Accredited

ANALYSIS REQUESTED

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) _____

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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 9/6/17 Time 1630
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 - 3.1
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? N/A Who was notified?
Are there Lab to Filters? N/A Who was notified?
Are there Rushes? N/A Who was notified?
Are there Short Holds? T
Is there enough Volume? N/A MS/MSD? N/A
Is there Headspace where applicable? N/A Is splitting samples required? N/A
Proper Media/Containers Used? T On COC? N/A
Were trip blanks received? N/A Acid Base
Do all samples have the proper pH? N/A

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		

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\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/13/17
 Data File Name A0913007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
 17I0175-03@10X
 17I0177-17@10X

D:\HPCHEM\1\DATA\A091417\A0914006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0914006.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	453384	492607	-8
c - 10	1.64	459697	492607	-7
c - 12	2.37	475397	492607	-3
c - 14	3.04	486082	492607	-1
c - 16	3.65	499764	492607	1
c - 18	4.29	497896	492607	1
o-Terphenyl	4.57	557590	492607	
c - 20	4.89	508182	492607	3
c - 22	5.39	521020	492607	6
c - 24	5.83	490841	492607	0
c - 26	6.23	519460	492607	5
c - 28	6.59	511554	492607	4
c - 30	6.92	503634	492607	2
c - 32	7.24	486513	492607	-1
c - 34	7.53	487105	492607	-1
c - 36	7.88	488572	492607	-1

* One compound allowed %D <= 50%

Samples

17I0177-05
 17I0177-08
 17I0177-10
 17I0177-19
 17I0177-04
 17I0325-03

D:\HPCHEM\1\DATA\A091417.SEC\A0914007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
 Data File Name A0914007.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	539073	575809	-6
c - 10	1.62	543533	575809	-6
c - 12	2.34	558790	575809	-3
c - 14	3.01	572281	575809	-1
c - 16	3.61	587727	575809	2
c - 18	4.23	583831	575809	1
o-Terphenyl	4.51	652231	575809	
c - 20	4.83	593936	575809	3
c - 22	5.34	605192	575809	5
c - 24	5.77	567503	575809	-1
c - 26	6.17	598870	575809	4
c - 28	6.52	591410	575809	3
c - 30	6.85	587003	575809	2
c - 32	7.16	570625	575809	-1
c - 34	7.46	570163	575809	-1
c - 36	7.77	567197	575809	-1

* One compound allowed %D <= 50%

Samples

17I0174-01
 17I0174-02
 17I0287-02
 17I0287-03
 17I0287-04
 17I0314-01
 17I0314-02
 17I0314-03
 17I0322-01
 17I0325-01
 17I0325-02
 17I0325-03



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: 17I0177

Laboratory Sample ID(s):

17I0177-01 thru 17I0177-20

Sample Date(s):

09/06/2017

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:
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.

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: 17I0240

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710240

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-34-3	1710240-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-31-1	1710240-02	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-31-2	1710240-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-31-3	1710240-04	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-36-1	1710240-05	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-36-2	1710240-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-33-1	1710240-07	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-33-2	1710240-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-33-3	1710240-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-37-1	1710240-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-37-2	1710240-11	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

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.

A handwritten signature in black ink, appearing to read "Tod Kopyscinski". The signature is fluid and cursive, with the first name "Tod" and last name "Kopyscinski" clearly distinguishable.

Tod E. Kopyscinski
Laboratory Director

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-3

Sampled: 9/7/2017 14:10

Sample ID: 1710240-01

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	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 12:47	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.7	30-150						9/16/17 12:47	
Decachlorobiphenyl [2]	89.1	30-150						9/16/17 12:47	
Tetrachloro-m-xylene [1]	83.0	30-150						9/16/17 12:47	
Tetrachloro-m-xylene [2]	87.4	30-150						9/16/17 12:47	

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-3

Sampled: 9/7/2017 14:10

Sample ID: 1710240-01

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	62.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

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	9/14/17	9/16/17 13:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:04	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	94.4	30-150							
Tetrachloro-m-xylene [1]	87.1	30-150							
Tetrachloro-m-xylene [2]	91.6	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	13	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 1:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	86.3		50-150					9/18/17 1:21	

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-1

Sampled: 9/7/2017 14:19

Sample ID: 1710240-02

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	73.2		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-2

Sampled: 9/7/2017 14:20

Sample ID: 1710240-03

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	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:22	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.3	30-150							
Decachlorobiphenyl [2]	87.9	30-150							
Tetrachloro-m-xylene [1]	88.0	30-150							
Tetrachloro-m-xylene [2]	92.0	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-2

Sampled: 9/7/2017 14:20

Sample ID: 1710240-03

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	78.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-3

Sampled: 9/7/2017 14:21

Sample ID: 1710240-04

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	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:40	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.9	30-150							
Decachlorobiphenyl [2]	95.0	30-150							
Tetrachloro-m-xylene [1]	88.6	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-31-3

Sampled: 9/7/2017 14:21

Sample ID: 1710240-04

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	83.1		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

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	9/14/17	9/16/17 13:58	TG
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 13:58	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.3	30-150							
Decachlorobiphenyl [2]	89.9	30-150							
Tetrachloro-m-xylene [1]	87.9	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	74	55	mg/Kg dry	5		CTDEP ETPH	9/13/17	9/18/17 1:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	68.0		50-150			9/18/17 1:38			

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: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-1

Sampled: 9/7/2017 14:31

Sample ID: 1710240-05

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	89.4		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-2

Sampled: 9/7/2017 14:32

Sample ID: 1710240-06

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	9/14/17	9/16/17 14:15	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.6	30-150							
Decachlorobiphenyl [2]	78.9	30-150							
Tetrachloro-m-xylene [1]	82.6	30-150							
Tetrachloro-m-xylene [2]	87.3	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-36-2

Sampled: 9/7/2017 14:32

Sample ID: 1710240-06

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	69.6		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

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	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 14:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.0	30-150							
Decachlorobiphenyl [2]	85.0	30-150							
Tetrachloro-m-xylene [1]	86.9	30-150							
Tetrachloro-m-xylene [2]	90.9	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	43	13	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 1:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	88.9		50-150					9/18/17 1:56	

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: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-1

Sampled: 9/7/2017 14:37

Sample ID: 1710240-07

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	76.0		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-2

Sampled: 9/7/2017 14:38

Sample ID: 1710240-08

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	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 15:57	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.4	30-150							
Decachlorobiphenyl [2]	87.8	30-150							
Tetrachloro-m-xylene [1]	84.6	30-150							
Tetrachloro-m-xylene [2]	88.0	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-2

Sampled: 9/7/2017 14:38

Sample ID: 1710240-08

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	75.0		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-3

Sampled: 9/7/2017 14:39

Sample ID: 1710240-09

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	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:14	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150							
Decachlorobiphenyl [2]	84.8	30-150							
Tetrachloro-m-xylene [1]	79.9	30-150							
Tetrachloro-m-xylene [2]	82.6	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-33-3

Sampled: 9/7/2017 14:39

Sample ID: 1710240-09

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	65.8		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

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	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Aroclor-1268 [1]	0.12	0.083	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:32	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.1	30-150							
Decachlorobiphenyl [2]	84.1	30-150							
Tetrachloro-m-xylene [1]	81.7	30-150							
Tetrachloro-m-xylene [2]	85.8	30-150							

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	11	mg/Kg dry	1		CTDEP ETPH	9/13/17	9/18/17 13:59	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.3		50-150					9/18/17 13:59	

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-1

Sampled: 9/7/2017 14:47

Sample ID: 1710240-10

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	90.4		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	MRL

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

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-2

Sampled: 9/7/2017 14:48

Sample ID: 1710240-11

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	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/14/17	9/16/17 16:50	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.6	30-150						9/16/17 16:50	
Decachlorobiphenyl [2]	79.8	30-150						9/16/17 16:50	
Tetrachloro-m-xylene [1]	83.4	30-150						9/16/17 16:50	
Tetrachloro-m-xylene [2]	88.5	30-150						9/16/17 16:50	

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

Sample Description:

Work Order: 1710240

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-37-2

Sampled: 9/7/2017 14:48

Sample ID: 1710240-11

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	83.3		% Wt	1		SM 2540G	9/15/17	9/15/17 17:02	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
17I0240-02 [WS-AOC-15-SO-31-1]	B186111	30.8	1.00	09/13/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186111	30.5	1.00	09/13/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186111	30.0	1.00	09/13/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186111	30.9	1.00	09/13/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0240-01 [WS-AOC-15-SO-34-3]	B186180	09/15/17
17I0240-02 [WS-AOC-15-SO-31-1]	B186180	09/15/17
17I0240-03 [WS-AOC-15-SO-31-2]	B186180	09/15/17
17I0240-04 [WS-AOC-15-SO-31-3]	B186180	09/15/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186180	09/15/17
17I0240-06 [WS-AOC-15-SO-36-2]	B186180	09/15/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186180	09/15/17
17I0240-08 [WS-AOC-15-SO-33-2]	B186180	09/15/17
17I0240-09 [WS-AOC-15-SO-33-3]	B186180	09/15/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186180	09/15/17
17I0240-11 [WS-AOC-15-SO-37-2]	B186180	09/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0240-01 [WS-AOC-15-SO-34-3]	B186216	10.7	10.0	09/14/17
17I0240-02 [WS-AOC-15-SO-31-1]	B186216	10.4	10.0	09/14/17
17I0240-03 [WS-AOC-15-SO-31-2]	B186216	10.6	10.0	09/14/17
17I0240-04 [WS-AOC-15-SO-31-3]	B186216	10.7	10.0	09/14/17
17I0240-05 [WS-AOC-15-SO-36-1]	B186216	10.6	10.0	09/14/17
17I0240-06 [WS-AOC-15-SO-36-2]	B186216	10.7	10.0	09/14/17
17I0240-07 [WS-AOC-15-SO-33-1]	B186216	10.7	10.0	09/14/17
17I0240-08 [WS-AOC-15-SO-33-2]	B186216	10.8	10.0	09/14/17
17I0240-09 [WS-AOC-15-SO-33-3]	B186216	10.6	10.0	09/14/17
17I0240-10 [WS-AOC-15-SO-37-1]	B186216	10.7	10.0	09/14/17
17I0240-11 [WS-AOC-15-SO-37-2]	B186216	10.5	10.0	09/14/17

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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
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Batch B186216 - SW-846 3540C
Blank (B186216-BLK1)

Prepared: 09/14/17 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	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			

LCS (B186216-BS1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.0	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.4	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.1	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.7	30-150			

LCS Dup (B186216-BSD1)

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.7	40-140	3.88	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.7	40-140	0.355	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.0	40-140	5.34	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.3	40-140	5.34	30	
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		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
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Batch B186216 - SW-846 3540C

Matrix Spike (B186216-MS1)

Source: 1710240-11

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.22	0.094	mg/Kg dry	0.235	ND	94.9	40-140			
Aroclor-1016 [2C]	0.22	0.094	mg/Kg dry	0.235	ND	93.0	40-140			
Aroclor-1260	0.18	0.094	mg/Kg dry	0.235	ND	77.7	40-140			
Aroclor-1260 [2C]	0.19	0.094	mg/Kg dry	0.235	ND	79.1	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.235		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.189		mg/Kg dry	0.235		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.235		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg dry	0.235		90.2	30-150			

Matrix Spike Dup (B186216-MSD1)

Source: 1710240-11

Prepared: 09/14/17 Analyzed: 09/16/17

Aroclor-1016	0.21	0.090	mg/Kg dry	0.224	ND	92.0	40-140	7.90	50	
Aroclor-1016 [2C]	0.21	0.090	mg/Kg dry	0.224	ND	91.7	40-140	6.25	50	
Aroclor-1260	0.17	0.090	mg/Kg dry	0.224	ND	73.7	40-140	10.0	50	
Aroclor-1260 [2C]	0.17	0.090	mg/Kg dry	0.224	ND	75.8	40-140	9.15	50	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg dry	0.224		69.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg dry	0.224		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg dry	0.224		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.224		86.6	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 B186111 - SW-846 3546										
Blank (B186111-BLK1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.15		mg/Kg wet	3.33		94.4	50-150			
LCS (B186111-BS1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	25.5	10	mg/Kg wet	33.3		76.4	60-120			
Surrogate: o-Terphenyl	3.34		mg/Kg wet	3.33		100	50-150			
LCS Dup (B186111-BSD1)				Prepared: 09/13/17 Analyzed: 09/15/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120	1.15	30	
Surrogate: o-Terphenyl	3.33		mg/Kg wet	3.33		99.8	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
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Batch B186180 - % Solids

Duplicate (B186180-DUP3)	Source: 1710240-01			Prepared & Analyzed: 09/15/17						
% Solids	66.4		% Wt		62.3			6.37	20	
Duplicate (B186180-DUP4)	Source: 1710240-02			Prepared & Analyzed: 09/15/17						
% Solids	72.0		% Wt		73.2			1.65	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****WS-AOC-15-SO-37-1***SW-846 8082A*

Lab Sample ID: 17I0240-10 Date(s) Analyzed: 09/16/2017 09/16/2017
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	0.12	
	2	0.000	-0.030	0.030	0.12	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.

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 Public 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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Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Sirotnak

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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 #:

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

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Conc Code

Conc Code

Conc Code

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ANALYSIS REQUESTED

PCB, SOX, HAPs

ETOH

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)

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

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

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 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 Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? T

Proper Media/Containers Used? T

Were trip blanks received? N/A

Do all samples have the proper pH?

Who was notified?

Who was notified?

Who was notified?

MS/MSD? N/A

Is splitting samples required? N/A

On COC? N/A

Acid N/A Base N/A

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz <u>Amb</u> /Clear	<u>20</u>
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			

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\A0917006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
Data File Name A0917006.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	515974	554748	-7
c - 10	1.64	522877	554748	-6
c - 12	2.37	540525	554748	-3
c - 14	3.04	554332	554748	0
c - 16	3.65	569229	554748	3
c - 18	4.28	564619	554748	2
o-Terphenyl	4.56	627166	554748	
c - 20	4.89	573008	554748	3
c - 22	5.39	583609	554748	5
c - 24	5.83	546227	554748	-2
c - 26	6.23	576595	554748	4
c - 28	6.59	569569	554748	3
c - 30	6.92	562874	554748	1
c - 32	7.23	547089	554748	-1
c - 34	7.53	548272	554748	-1
c - 36	7.87	546413	554748	-2

* One compound allowed %D <= 50%

Samples

17I0325-05
17I0325-07

D:\HPCHEM\1\DATA\A091717\A0917040.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/17/17
 Data File Name A0917040.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	535890	583545	-8
c - 10	1.64	548818	583545	-6
c - 12	2.37	569864	583545	-2
c - 14	3.04	583427	583545	0
c - 16	3.65	599105	583545	3
c - 18	4.29	595027	583545	2
o-Terphenyl	4.57	659631	583545	
c - 20	4.89	603748	583545	3
c - 22	5.39	614462	583545	5
c - 24	5.83	575104	583545	-1
c - 26	6.23	606423	583545	4
c - 28	6.59	598609	583545	3
c - 30	6.92	591495	583545	1
c - 32	7.23	575072	583545	-1
c - 34	7.53	577173	583545	-1
c - 36	7.87	578951	583545	-1

* One compound allowed %D <= 50%

Samples

17I0234-01
 17I0234-02
 17I0234-04
 17I0234-05
 17I0234-06
 17I0234-07
 17I0240-02
 17I0240-05@5X
 17I0240-07

9/18/17 11:42 AM

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
 17I0234-03@5X
 17I0234-08@5X
 17I0374-03@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: 17I0240

Laboratory Sample ID(s):

17I0240-01 thru 17I0240-11

Sample Date(s):

09/07/2017

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:
Position: Laboratory Director
Printed Name: Tod E. Kopyscinski
Date: 09/18/17
Name of Laboratory: Con-Test Analytical Laboratory

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

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: 17I0241

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,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 1710241

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-15-1	1710241-01	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-15-2	1710241-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-15-3	1710241-03	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-1	1710241-04	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-2	1710241-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-21-3	1710241-06	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP49	1710241-07	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP50	1710241-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-DUP51	1710241-09	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-1	1710241-10	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-2	1710241-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-28-3	1710241-12	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-1	1710241-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-2	1710241-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-26-3	1710241-15	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-1	1710241-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-2	1710241-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-30-3	1710241-18	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & 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: 1710241

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-34-1	1710241-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-34-2	1710241-20	Soil		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-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0241-10RE1[WS-AOC-15-SO-28-1], B186581-MS1, B186581-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

17I0241-04[WS-AOC-15-SO-21-1], 17I0241-13[WS-AOC-15-SO-26-1]

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0241-04[WS-AOC-15-SO-21-1], 17I0241-05[WS-AOC-15-SO-21-2], 17I0241-13[WS-AOC-15-SO-26-1]

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

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

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	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:16	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	106		30-150				9/18/17 16:16		
Decachlorobiphenyl [2]	105		30-150				9/18/17 16:16		
Tetrachloro-m-xylene [1]	96.4		30-150				9/18/17 16:16		
Tetrachloro-m-xylene [2]	100		30-150				9/18/17 16:16		

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	30	12	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 18:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	74.6		50-150					9/18/17 18:46	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-1

Sampled: 9/7/2017 12:02

Sample ID: 1710241-01

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	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-2

Sampled: 9/7/2017 12:03

Sample ID: 1710241-02

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	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:29	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-2

Sampled: 9/7/2017 12:03

Sample ID: 1710241-02

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	90.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-3

Sampled: 9/7/2017 12:04

Sample ID: 1710241-03

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 16:42	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 16:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	96.0	30-150							
Decachlorobiphenyl [2]	94.8	30-150							
Tetrachloro-m-xylene [1]	94.5	30-150							
Tetrachloro-m-xylene [2]	98.4	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-15-3

Sampled: 9/7/2017 12:04

Sample ID: 1710241-03

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	78.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 16:54	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.1	30-150						9/18/17 16:54	
Decachlorobiphenyl [2]	83.1	30-150						9/18/17 16:54	
Tetrachloro-m-xylene [1]	90.2	30-150						9/18/17 16:54	
Tetrachloro-m-xylene [2]	96.9	30-150						9/18/17 16:54	

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: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1400	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/20/17 12:24	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/20/17 12:24	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-1

Sampled: 9/7/2017 12:25

Sample ID: 1710241-04

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	95.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-2

Sampled: 9/7/2017 12:26

Sample ID: 1710241-05

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 17:07	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.9	30-150						9/18/17 17:07	
Decachlorobiphenyl [2]	66.7	30-150						9/18/17 17:07	
Tetrachloro-m-xylene [1]	82.1	30-150						9/18/17 17:07	
Tetrachloro-m-xylene [2]	90.6	30-150						9/18/17 17:07	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-2

Sampled: 9/7/2017 12:26

Sample ID: 1710241-05

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	95.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-3

Sampled: 9/7/2017 12:27

Sample ID: 1710241-06

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	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:25	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.8	30-150							
Decachlorobiphenyl [2]	96.0	30-150							
Tetrachloro-m-xylene [1]	93.2	30-150							
Tetrachloro-m-xylene [2]	93.9	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-21-3

Sampled: 9/7/2017 12:27

Sample ID: 1710241-06

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	89.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP49

Sampled: 9/7/2017 00:00

Sample ID: 1710241-07

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	9/13/17	9/18/17 17:42	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.3	30-150							
Decachlorobiphenyl [2]	94.5	30-150							
Tetrachloro-m-xylene [1]	95.5	30-150							
Tetrachloro-m-xylene [2]	98.4	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP49

Sampled: 9/7/2017 00:00

Sample ID: 1710241-07

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	83.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP50

Sampled: 9/7/2017 00:00

Sample ID: 1710241-08

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	9/13/17	9/18/17 18:00	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:00	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.6	30-150							
Decachlorobiphenyl [2]	83.4	30-150							
Tetrachloro-m-xylene [1]	83.2	30-150							
Tetrachloro-m-xylene [2]	85.6	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP50

Sampled: 9/7/2017 00:00

Sample ID: 1710241-08

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	85.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP51

Sampled: 9/7/2017 00:00

Sample ID: 1710241-09

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	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:18	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.6	30-150							
Decachlorobiphenyl [2]	92.0	30-150							
Tetrachloro-m-xylene [1]	96.4	30-150							
Tetrachloro-m-xylene [2]	97.4	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-DUP51

Sampled: 9/7/2017 00:00

Sample ID: 1710241-09

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	87.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:41	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.3	30-150							
Decachlorobiphenyl [2]	93.1	30-150							
Tetrachloro-m-xylene [1]	95.3	30-150							
Tetrachloro-m-xylene [2]	95.6	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	270	59	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/19/17	9/21/17 3:11	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	73.4		50-150					9/21/17 3:11	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-1

Sampled: 9/7/2017 13:42

Sample ID: 1710241-10

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	84.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-2

Sampled: 9/7/2017 13:43

Sample ID: 1710241-11

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.9	30-150							
Decachlorobiphenyl [2]	89.2	30-150							
Tetrachloro-m-xylene [1]	92.8	30-150							
Tetrachloro-m-xylene [2]	95.9	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-2

Sampled: 9/7/2017 13:43

Sample ID: 1710241-11

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	82.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-3

Sampled: 9/7/2017 13:44

Sample ID: 1710241-12

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	9/19/17 11:07	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 11:07	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150						9/19/17 11:07	
Decachlorobiphenyl [2]	80.6	30-150						9/19/17 11:07	
Tetrachloro-m-xylene [1]	84.3	30-150						9/19/17 11:07	
Tetrachloro-m-xylene [2]	88.5	30-150						9/19/17 11:07	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-28-3

Sampled: 9/7/2017 13:44

Sample ID: 1710241-12

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	76.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

Sample Matrix: Soil

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	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	9/13/17	9/18/17 20:34	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.6	30-150							
Decachlorobiphenyl [2]	78.0	30-150							
Tetrachloro-m-xylene [1]	85.6	30-150							
Tetrachloro-m-xylene [2]	91.4	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1600	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 20:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 20:42	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-1

Sampled: 9/7/2017 13:53

Sample ID: 1710241-13

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	95.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-2

Sampled: 9/7/2017 13:54

Sample ID: 1710241-14

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	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 20:52	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.5	30-150							
Decachlorobiphenyl [2]	84.8	30-150							
Tetrachloro-m-xylene [1]	94.9	30-150							
Tetrachloro-m-xylene [2]	97.7	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-2

Sampled: 9/7/2017 13:54

Sample ID: 1710241-14

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	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-3

Sampled: 9/7/2017 13:55

Sample ID: 1710241-15

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	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:10	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	71.6	30-150							
Decachlorobiphenyl [2]	70.6	30-150							
Tetrachloro-m-xylene [1]	87.0	30-150							
Tetrachloro-m-xylene [2]	89.3	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-26-3

Sampled: 9/7/2017 13:55

Sample ID: 1710241-15

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	77.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

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	9/13/17	9/18/17 21:27	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.3	30-150							
Decachlorobiphenyl [2]	85.9	30-150							
Tetrachloro-m-xylene [1]	89.9	30-150							
Tetrachloro-m-xylene [2]	92.3	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	9/14/17	9/20/17 2:18	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	58.4		50-150					9/20/17 2:18	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-1

Sampled: 9/7/2017 13:59

Sample ID: 1710241-16

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	80.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-2

Sampled: 9/7/2017 14:00

Sample ID: 1710241-17

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	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 21:45	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.2	30-150							
Decachlorobiphenyl [2]	121	30-150							
Tetrachloro-m-xylene [1]	89.3	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-2

Sampled: 9/7/2017 14:00

Sample ID: 1710241-17

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	74.7		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-3

Sampled: 9/7/2017 14:01

Sample ID: 1710241-18

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:03	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.1	30-150							
Decachlorobiphenyl [2]	92.9	30-150							
Tetrachloro-m-xylene [1]	91.4	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-30-3

Sampled: 9/7/2017 14:01

Sample ID: 1710241-18

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	83.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

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	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:21	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	95.6	30-150							
Decachlorobiphenyl [2]	96.3	30-150							
Tetrachloro-m-xylene [1]	97.2	30-150							
Tetrachloro-m-xylene [2]	99.4	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

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	9/14/17	9/18/17 19:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	61.9		50-150					9/18/17 19:21	

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-1

Sampled: 9/7/2017 14:08

Sample ID: 1710241-19

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	91.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-2

Sampled: 9/7/2017 14:09

Sample ID: 1710241-20

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	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 22:38	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	88.8	30-150							
Decachlorobiphenyl [2]	89.0	30-150							
Tetrachloro-m-xylene [1]	86.6	30-150							
Tetrachloro-m-xylene [2]	89.2	30-150							

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

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

Sample Description:

Work Order: 1710241

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-34-2

Sampled: 9/7/2017 14:09

Sample ID: 1710241-20

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	65.5		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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
17I0241-01 [WS-AOC-15-SO-15-1]	B186230	30.0	1.00	09/14/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186230	30.0	2.00	09/14/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186230	30.0	2.00	09/14/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186230	30.0	1.00	09/14/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186230	30.0	1.00	09/14/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-10RE1 [WS-AOC-15-SO-28-1]	B186581	30.1	1.00	09/19/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0241-01 [WS-AOC-15-SO-15-1]	B186104	09/13/17
17I0241-02 [WS-AOC-15-SO-15-2]	B186104	09/13/17
17I0241-03 [WS-AOC-15-SO-15-3]	B186104	09/13/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186104	09/13/17
17I0241-05 [WS-AOC-15-SO-21-2]	B186104	09/13/17
17I0241-06 [WS-AOC-15-SO-21-3]	B186104	09/13/17
17I0241-07 [WS-AOC-15-SO-DUP49]	B186104	09/13/17
17I0241-08 [WS-AOC-15-SO-DUP50]	B186104	09/13/17
17I0241-09 [WS-AOC-15-SO-DUP51]	B186104	09/13/17
17I0241-10 [WS-AOC-15-SO-28-1]	B186104	09/13/17
17I0241-11 [WS-AOC-15-SO-28-2]	B186104	09/13/17
17I0241-12 [WS-AOC-15-SO-28-3]	B186104	09/13/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186104	09/13/17
17I0241-14 [WS-AOC-15-SO-26-2]	B186104	09/13/17
17I0241-15 [WS-AOC-15-SO-26-3]	B186104	09/13/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186104	09/13/17
17I0241-17 [WS-AOC-15-SO-30-2]	B186104	09/13/17
17I0241-18 [WS-AOC-15-SO-30-3]	B186104	09/13/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186104	09/13/17
17I0241-20 [WS-AOC-15-SO-34-2]	B186104	09/13/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0241-01 [WS-AOC-15-SO-15-1]	B186156	10.0	10.0	09/13/17
17I0241-02 [WS-AOC-15-SO-15-2]	B186156	10.0	10.0	09/13/17
17I0241-03 [WS-AOC-15-SO-15-3]	B186156	10.0	10.0	09/13/17
17I0241-04 [WS-AOC-15-SO-21-1]	B186156	10.0	10.0	09/13/17
17I0241-05 [WS-AOC-15-SO-21-2]	B186156	10.1	10.0	09/13/17
17I0241-06 [WS-AOC-15-SO-21-3]	B186156	10.0	10.0	09/13/17
17I0241-07 [WS-AOC-15-SO-DUP49]	B186156	10.0	10.0	09/13/17
17I0241-08 [WS-AOC-15-SO-DUP50]	B186156	10.0	10.0	09/13/17
17I0241-09 [WS-AOC-15-SO-DUP51]	B186156	10.0	10.0	09/13/17
17I0241-10 [WS-AOC-15-SO-28-1]	B186156	10.0	10.0	09/13/17
17I0241-11 [WS-AOC-15-SO-28-2]	B186156	10.2	10.0	09/13/17
17I0241-12 [WS-AOC-15-SO-28-3]	B186156	10.0	10.0	09/13/17
17I0241-13 [WS-AOC-15-SO-26-1]	B186156	10.1	10.0	09/13/17

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
17I0241-14 [WS-AOC-15-SO-26-2]	B186156	10.1	10.0	09/13/17
17I0241-15 [WS-AOC-15-SO-26-3]	B186156	10.1	10.0	09/13/17
17I0241-16 [WS-AOC-15-SO-30-1]	B186156	10.0	10.0	09/13/17
17I0241-17 [WS-AOC-15-SO-30-2]	B186156	10.0	10.0	09/13/17
17I0241-18 [WS-AOC-15-SO-30-3]	B186156	10.0	10.0	09/13/17
17I0241-19 [WS-AOC-15-SO-34-1]	B186156	10.0	10.0	09/13/17
17I0241-20 [WS-AOC-15-SO-34-2]	B186156	10.1	10.0	09/13/17

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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
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Batch B186156 - SW-846 3540C
Blank (B186156-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	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			

LCS (B186156-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.4	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.0	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.7	30-150			

LCS Dup (B186156-BSD1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		102	40-140	7.96	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.0	40-140	5.62	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.5	40-140	8.40	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.9	40-140	6.55	30	
Surrogate: Decachlorobiphenyl	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg wet	0.200		100	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
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Batch B186156 - SW-846 3540C

Matrix Spike (B186156-MS1)

Source: 1710241-10

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.23	0.095	mg/Kg dry	0.238	ND	96.0	40-140			
Aroclor-1016 [2C]	0.23	0.095	mg/Kg dry	0.238	ND	94.7	40-140			
Aroclor-1260	0.20	0.095	mg/Kg dry	0.238	ND	83.8	40-140			
Aroclor-1260 [2C]	0.20	0.095	mg/Kg dry	0.238	ND	83.5	40-140			
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.238		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg dry	0.238		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.215		mg/Kg dry	0.238		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.238		92.8	30-150			

Matrix Spike Dup (B186156-MSD1)

Source: 1710241-10

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.25	0.095	mg/Kg dry	0.238	ND	105	40-140	8.94	50	
Aroclor-1016 [2C]	0.25	0.095	mg/Kg dry	0.238	ND	104	40-140	9.04	50	
Aroclor-1260	0.21	0.095	mg/Kg dry	0.238	ND	89.2	40-140	6.23	50	
Aroclor-1260 [2C]	0.21	0.095	mg/Kg dry	0.238	ND	88.1	40-140	5.33	50	
Surrogate: Decachlorobiphenyl	0.234		mg/Kg dry	0.238		98.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.235		mg/Kg dry	0.238		98.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.236		mg/Kg dry	0.238		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.242		mg/Kg dry	0.238		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 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			
Batch B186581 - SW-846 3546										
Blank (B186581-BLK1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.41		mg/Kg wet	3.33		102	50-150			
LCS (B186581-BS1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	24.7	10	mg/Kg wet	33.3		74.1	60-120			
Surrogate: o-Terphenyl	3.30		mg/Kg wet	3.33		99.0	50-150			
LCS Dup (B186581-BSD1)				Prepared: 09/19/17 Analyzed: 09/20/17						
CT ETPH	27.7	10	mg/Kg wet	33.3		83.2	60-120	11.7	30	
Surrogate: o-Terphenyl	3.57		mg/Kg wet	3.33		107	50-150			
Matrix Spike (B186581-MS1)				Source: 17I0241-10RE1		Prepared: 09/19/17 Analyzed: 09/21/17				
CT ETPH	256	60	mg/Kg dry	39.7	269	-33.0 *	50-150			MS-07A
Surrogate: o-Terphenyl	2.83		mg/Kg dry	3.97		71.2	50-150			
Matrix Spike Dup (B186581-MSD1)				Source: 17I0241-10RE1		Prepared: 09/19/17 Analyzed: 09/21/17				
CT ETPH	255	59	mg/Kg dry	39.6	269	-35.6 *	50-150	0.375	30	MS-07A
Surrogate: o-Terphenyl	2.78		mg/Kg dry	3.96		70.4	50-150			

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

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-DUP1)	Source: 17I0241-10			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	86.9		% Wt		84.0			3.39	20	
Duplicate (B186104-DUP2)	Source: 17I0241-11			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	80.3		% Wt		82.8			3.07	20	
Duplicate (B186104-DUP3)	Source: 17I0241-12			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	76.7		% Wt		76.4			0.392	20	
Duplicate (B186104-DUP4)	Source: 17I0241-13			Prepared: 09/13/17 Analyzed: 09/14/17						
% Solids	95.5		% Wt		95.1			0.420	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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.
DL-03	Elevated reporting limit due to matrix.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot 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.

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 Public 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



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky 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: Malcolm Beeler

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 #: ☐

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-ADG-15-50-15-1	9/7/17	1202		X	S	U
02	WS-ADG-15-50-15-2	9/7/17	1203		X	S	V
03	WS-ADG-15-50-15-3	9/7/17	1204		X	S	V
04	WS-ADG-15-50-21-1	9/7/17	1225		X	S	V
05	WS-ADG-15-50-21-2	9/7/17	1226		X	S	V
06	WS-ADG-15-50-21-3	9/7/17	1227		X	S	V
07	WS-ADG-15-50-DUP49	9/7/17	-		X	S	V
08	WS-ADG-15-50-DUP 50	9/7/17	-		X	S	V
09	WS-ADG-15-50-DUP 51	9/7/17	-		X	S	V
10	WS-ADG-15-50-23-1	9/7/17	1342		X	S	U

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 15:00

Received by: (signature) Date/Time: 9/7/17 15:00

Relinquished by: (signature) Date/Time: 9/7/17 15:00

Received by: (signature) Date/Time: 9/7/17 17:05

Relinquished by: (signature) Date/Time: 9/7/17 4:00

Received by: (signature) Date/Time: 9/7/17 5:05

Relinquished by: (signature) Date/Time: 9/7/17 17:05

Received by: (signature) Date/Time: 9/7/17 17:05

Program Information

- ☐ MCP Analytical Certification Form Required
☒ RCP Analytical 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

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 Western & 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? +

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 Client T Analysis + Sampler Name T
pertinent Information? Project + ID's + Collection Dates/Times +

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? + 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	
HCL-		500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-		500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
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

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

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

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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: 17I0241

Laboratory Sample ID(s):

17I0241-01 thru 17I0241-20

Sample Date(s):

09/07/2017

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:
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.

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: 17I0242

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,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

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: 1710242

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-17-2	1710242-01	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-17-3	1710242-02	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-18-1	1710242-03	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-18-2	1710242-04	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-18-3	1710242-05	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-8-1	1710242-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-8-2	1710242-07	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-8-3	1710242-08	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-19-1	1710242-09	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-19-2	1710242-10	Soil		SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC-15-SO-19-3	1710242-11	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-1	1710242-12	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-2	1710242-13	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-25-3	1710242-14	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-1	1710242-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-20-2	1710242-16	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Weston & 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: 1710242

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-20-3	1710242-17	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-1	1710242-18	Soil		CTDEP ETPH SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-2	1710242-19	Soil		SM 2540G SW-846 8082A	
WS-AOC-15-SO-24-3	1710242-20	Soil		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

1710242-06[WS-AOC-15-SO-8-1], 1710242-09[WS-AOC-15-SO-19-1], 1710242-15[WS-AOC-15-SO-20-1], 1710242-18RE1[WS-AOC-15-SO-24-1]

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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-2

Sampled: 9/7/2017 10:44

Sample ID: 1710242-01

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]	97.7	30-150						9/18/17 16:59	
Decachlorobiphenyl [2]	88.4	30-150						9/18/17 16:59	
Tetrachloro-m-xylene [1]	88.8	30-150						9/18/17 16:59	
Tetrachloro-m-xylene [2]	91.0	30-150						9/18/17 16:59	

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-2

Sampled: 9/7/2017 10:44

Sample ID: 1710242-01

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	84.6		% 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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-3

Sampled: 9/7/2017 10:45

Sample ID: 1710242-02

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	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:16	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	81.0	30-150							
Tetrachloro-m-xylene [2]	85.1	30-150							

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-17-3

Sampled: 9/7/2017 10:45

Sample ID: 1710242-02

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	81.0		% 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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

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	9/13/17	9/18/17 17:34	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:34	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	72.6	30-150							
Tetrachloro-m-xylene [1]	76.4	30-150							
Tetrachloro-m-xylene [2]	78.6	30-150							

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	56	mg/Kg dry	5		CTDEP ETPH	9/14/17	9/20/17 2:36	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	63.3		50-150					9/20/17 2:36	

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-1

Sampled: 9/7/2017 11:03

Sample ID: 1710242-03

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	89.2		% 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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

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	9/14/17	9/15/17 13:05	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:05	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	60.8	30-130						9/15/17 13:05	
2-Fluorobiphenyl	67.3	30-130						9/15/17 13:05	
p-Terphenyl-d14	70.0	30-130						9/15/17 13:05	

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

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	9/13/17	9/18/17 17:52	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 17:52	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.7	30-150							
Decachlorobiphenyl [2]	81.8	30-150							
Tetrachloro-m-xylene [1]	84.0	30-150							
Tetrachloro-m-xylene [2]	86.5	30-150							

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-2

Sampled: 9/7/2017 11:04

Sample ID: 1710242-04

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	85.2		% 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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-3

Sampled: 9/7/2017 11:05

Sample ID: 1710242-05

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 18:09	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:09	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	84.7	30-150							
Decachlorobiphenyl [2]	75.2	30-150							
Tetrachloro-m-xylene [1]	79.3	30-150							
Tetrachloro-m-xylene [2]	80.3	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-18-3

Sampled: 9/7/2017 11:05

Sample ID: 1710242-05

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	79.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

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	9/13/17	9/18/17 18:27	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.1	30-150							
Decachlorobiphenyl [2]	74.9	30-150							
Tetrachloro-m-xylene [1]	77.9	30-150							
Tetrachloro-m-xylene [2]	78.9	30-150							

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	650	470	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 19:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 19:31	

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-1

Sampled: 9/7/2017 11:37

Sample ID: 1710242-06

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	85.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

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	9/14/17	9/15/17 13:31	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:31	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	55.5	30-130							
2-Fluorobiphenyl	62.1	30-130							
p-Terphenyl-d14	65.9	30-130							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

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	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 18:44	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.7	30-150							
Decachlorobiphenyl [2]	84.6	30-150							
Tetrachloro-m-xylene [1]	92.6	30-150							
Tetrachloro-m-xylene [2]	93.3	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-2

Sampled: 9/7/2017 11:38

Sample ID: 1710242-07

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	85.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-3

Sampled: 9/7/2017 11:39

Sample ID: 1710242-08

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	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150							
Decachlorobiphenyl [2]	91.3	30-150							
Tetrachloro-m-xylene [1]	92.2	30-150							
Tetrachloro-m-xylene [2]	93.5	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-8-3

Sampled: 9/7/2017 11:39

Sample ID: 1710242-08

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	71.2		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

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	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:20	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	77.3	30-150							
Tetrachloro-m-xylene [1]	78.5	30-150							
Tetrachloro-m-xylene [2]	85.1	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2500	420	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 19:49	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01		9/19/17 19:49		

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-1

Sampled: 9/7/2017 11:43

Sample ID: 1710242-09

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	94.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

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	9/14/17	9/15/17 13:56	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Chrysene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Fluoranthene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Phenanthrene	0.22	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Pyrene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	9/14/17	9/15/17 13:56	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	76.8	30-130							
2-Fluorobiphenyl	84.9	30-130							
p-Terphenyl-d14	96.3	30-130							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

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	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/13/17	9/18/17 19:38	TG
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
Decachlorobiphenyl [1]	61.9		30-150			9/18/17 19:38			
Decachlorobiphenyl [2]	68.4		30-150			9/18/17 19:38			
Tetrachloro-m-xylene [1]	78.7		30-150			9/18/17 19:38			
Tetrachloro-m-xylene [2]	80.5		30-150			9/18/17 19:38			

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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-2

Sampled: 9/7/2017 11:44

Sample ID: 1710242-10

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	83.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-3

Sampled: 9/7/2017 11:45

Sample ID: 1710242-11

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	9/13/17	9/19/17 15:43	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:43	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	107	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	101	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-19-3

Sampled: 9/7/2017 11:45

Sample ID: 1710242-11

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	86.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

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	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 15:55	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	105	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	95.6	30-150							
Tetrachloro-m-xylene [2]	99.0	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	56	11	mg/Kg dry	1		CTDEP ETPH	9/14/17	9/18/17 19:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	59.7		50-150					9/18/17 19:57	

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-1

Sampled: 9/7/2017 12:14

Sample ID: 1710242-12

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	91.0		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-2

Sampled: 9/7/2017 12:15

Sample ID: 1710242-13

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	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:13	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.3	30-150							
Decachlorobiphenyl [2]	93.3	30-150							
Tetrachloro-m-xylene [1]	92.0	30-150							
Tetrachloro-m-xylene [2]	95.0	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-2

Sampled: 9/7/2017 12:15

Sample ID: 1710242-13

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	84.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-3

Sampled: 9/7/2017 12:16

Sample ID: 1710242-14

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	9/13/17	9/19/17 16:31	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:31	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.5	30-150						9/19/17 16:31	
Decachlorobiphenyl [2]	85.8	30-150						9/19/17 16:31	
Tetrachloro-m-xylene [1]	83.4	30-150						9/19/17 16:31	
Tetrachloro-m-xylene [2]	85.4	30-150						9/19/17 16:31	

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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-25-3

Sampled: 9/7/2017 12:16

Sample ID: 1710242-14

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	78.3		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

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	9/13/17	9/19/17 16:48	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 16:48	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.5	30-150							
Decachlorobiphenyl [2]	72.0	30-150							
Tetrachloro-m-xylene [1]	82.0	30-150							
Tetrachloro-m-xylene [2]	84.1	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

Sample Matrix: Soil

Petrolium Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	580	460	mg/Kg dry	20		CTDEP ETPH	9/14/17	9/19/17 16:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/19/17 16:42	

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-1

Sampled: 9/7/2017 11:59

Sample ID: 1710242-15

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	86.1		% 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: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/7/2017 12:01

Sample ID: 1710242-16

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	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:06	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.4	30-150							
Decachlorobiphenyl [2]	72.7	30-150							
Tetrachloro-m-xylene [1]	74.9	30-150							
Tetrachloro-m-xylene [2]	77.0	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-2

Sampled: 9/7/2017 12:01

Sample ID: 1710242-16

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	85.8		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/7/2017 12:02

Sample ID: 1710242-17

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	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:24	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.1	30-150						9/19/17 17:24	
Decachlorobiphenyl [2]	78.1	30-150						9/19/17 17:24	
Tetrachloro-m-xylene [1]	76.1	30-150						9/19/17 17:24	
Tetrachloro-m-xylene [2]	78.4	30-150						9/19/17 17:24	

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-20-3

Sampled: 9/7/2017 12:02

Sample ID: 1710242-17

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	75.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

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	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:42	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.4	30-150							
Decachlorobiphenyl [2]	69.3	30-150							
Tetrachloro-m-xylene [1]	78.8	30-150							
Tetrachloro-m-xylene [2]	80.6	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	680	270	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 13:45	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	*		50-150		S-01			9/21/17 13:45	

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-1

Sampled: 9/7/2017 12:13

Sample ID: 1710242-18

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	75.4		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-2

Sampled: 9/7/2017 12:14

Sample ID: 1710242-19

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	9/13/17	9/19/17 17:59	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 17:59	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.5	30-150							
Decachlorobiphenyl [2]	73.9	30-150							
Tetrachloro-m-xylene [1]	80.3	30-150							
Tetrachloro-m-xylene [2]	82.6	30-150							

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-2

Sampled: 9/7/2017 12:14

Sample ID: 1710242-19

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	94.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-3

Sampled: 9/7/2017 12:15

Sample ID: 1710242-20

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	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/13/17	9/19/17 18:17	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	59.1	30-150						9/19/17 18:17	
Decachlorobiphenyl [2]	62.3	30-150						9/19/17 18:17	
Tetrachloro-m-xylene [1]	66.6	30-150						9/19/17 18:17	
Tetrachloro-m-xylene [2]	69.0	30-150						9/19/17 18:17	

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

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

Sample Description:

Work Order: 1710242

Date Received: 9/7/2017

Field Sample #: WS-AOC-15-SO-24-3

Sampled: 9/7/2017 12:15

Sample ID: 1710242-20

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	82.1		% Wt	1		SM 2540G	9/13/17	9/14/17 8:45	MRL

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
17I0242-03 [WS-AOC-15-SO-18-1]	B186230	30.0	1.00	09/14/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186230	30.1	2.00	09/14/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186230	30.1	2.00	09/14/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186230	30.0	1.00	09/14/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186230	30.0	2.00	09/14/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-18RE1 [WS-AOC-15-SO-24-1]	B186685	30.0	1.00	09/20/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0242-01 [WS-AOC-15-SO-17-2]	B186104	09/13/17
17I0242-02 [WS-AOC-15-SO-17-3]	B186104	09/13/17
17I0242-03 [WS-AOC-15-SO-18-1]	B186104	09/13/17
17I0242-04 [WS-AOC-15-SO-18-2]	B186104	09/13/17
17I0242-05 [WS-AOC-15-SO-18-3]	B186104	09/13/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186104	09/13/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186104	09/13/17
17I0242-08 [WS-AOC-15-SO-8-3]	B186104	09/13/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186104	09/13/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186104	09/13/17
17I0242-11 [WS-AOC-15-SO-19-3]	B186104	09/13/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186104	09/13/17
17I0242-13 [WS-AOC-15-SO-25-2]	B186104	09/13/17
17I0242-14 [WS-AOC-15-SO-25-3]	B186104	09/13/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186104	09/13/17
17I0242-16 [WS-AOC-15-SO-20-2]	B186104	09/13/17
17I0242-17 [WS-AOC-15-SO-20-3]	B186104	09/13/17
17I0242-18 [WS-AOC-15-SO-24-1]	B186104	09/13/17
17I0242-19 [WS-AOC-15-SO-24-2]	B186104	09/13/17
17I0242-20 [WS-AOC-15-SO-24-3]	B186104	09/13/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0242-01 [WS-AOC-15-SO-17-2]	B186158	10.0	10.0	09/13/17
17I0242-02 [WS-AOC-15-SO-17-3]	B186158	10.1	10.0	09/13/17
17I0242-03 [WS-AOC-15-SO-18-1]	B186158	10.0	10.0	09/13/17
17I0242-04 [WS-AOC-15-SO-18-2]	B186158	10.1	10.0	09/13/17
17I0242-05 [WS-AOC-15-SO-18-3]	B186158	10.1	10.0	09/13/17
17I0242-06 [WS-AOC-15-SO-8-1]	B186158	10.0	10.0	09/13/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186158	10.2	10.0	09/13/17
17I0242-08 [WS-AOC-15-SO-8-3]	B186158	10.0	10.0	09/13/17
17I0242-09 [WS-AOC-15-SO-19-1]	B186158	10.0	10.0	09/13/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186158	10.0	10.0	09/13/17
17I0242-11 [WS-AOC-15-SO-19-3]	B186158	10.0	10.0	09/13/17
17I0242-12 [WS-AOC-15-SO-25-1]	B186158	10.0	10.0	09/13/17
17I0242-13 [WS-AOC-15-SO-25-2]	B186158	10.0	10.0	09/13/17

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
17I0242-14 [WS-AOC-15-SO-25-3]	B186158	10.0	10.0	09/13/17
17I0242-15 [WS-AOC-15-SO-20-1]	B186158	10.1	10.0	09/13/17
17I0242-16 [WS-AOC-15-SO-20-2]	B186158	10.1	10.0	09/13/17
17I0242-17 [WS-AOC-15-SO-20-3]	B186158	10.1	10.0	09/13/17
17I0242-18 [WS-AOC-15-SO-24-1]	B186158	10.0	10.0	09/13/17
17I0242-19 [WS-AOC-15-SO-24-2]	B186158	10.0	10.0	09/13/17
17I0242-20 [WS-AOC-15-SO-24-3]	B186158	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
17I0242-04 [WS-AOC-15-SO-18-2]	B186232	30.3	1.00	09/14/17
17I0242-07 [WS-AOC-15-SO-8-2]	B186232	30.7	1.00	09/14/17
17I0242-10 [WS-AOC-15-SO-19-2]	B186232	30.0	1.00	09/14/17

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
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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
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Batch B186158 - SW-846 3540C

Blank (B186158-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	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.6	30-150			

LCS (B186158-BS1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.4	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.7	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		72.9	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.2	30-150			

LCS Dup (B186158-BSD1)

Prepared: 09/13/17 Analyzed: 09/18/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.1	40-140	9.56	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.7	40-140	8.97	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.8	40-140	12.4	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.8	40-140	12.7	30	
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.6	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
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Batch B186158 - SW-846 3540C

Matrix Spike (B186158-MS1)

Source: 1710242-01

Prepared: 09/13/17 Analyzed: 09/19/17

Aroclor-1016	0.22	0.095	mg/Kg dry	0.236	ND	94.5	40-140			
Aroclor-1016 [2C]	0.22	0.095	mg/Kg dry	0.236	ND	91.3	40-140			
Aroclor-1260	0.18	0.095	mg/Kg dry	0.236	ND	76.8	40-140			
Aroclor-1260 [2C]	0.18	0.095	mg/Kg dry	0.236	ND	76.8	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.236		75.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg dry	0.236		78.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg dry	0.236		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg dry	0.236		84.3	30-150			

Matrix Spike Dup (B186158-MSD1)

Source: 1710242-01

Prepared: 09/13/17 Analyzed: 09/19/17

Aroclor-1016	0.24	0.095	mg/Kg dry	0.236	ND	101	40-140	6.56	50	
Aroclor-1016 [2C]	0.23	0.095	mg/Kg dry	0.236	ND	99.1	40-140	8.17	50	
Aroclor-1260	0.21	0.095	mg/Kg dry	0.236	ND	90.2	40-140	16.0	50	
Aroclor-1260 [2C]	0.21	0.095	mg/Kg dry	0.236	ND	89.2	40-140	15.0	50	
Surrogate: Decachlorobiphenyl	0.226		mg/Kg dry	0.236		95.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.228		mg/Kg dry	0.236		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.231		mg/Kg dry	0.236		97.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.237		mg/Kg dry	0.236		100	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			
Batch B186685 - SW-846 3546										
Blank (B186685-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.8	50-150			
LCS (B186685-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.7	60-120			
Surrogate: o-Terphenyl	2.60		mg/Kg wet	3.33		77.9	50-150			
LCS Dup (B186685-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	25.1	10	mg/Kg wet	33.3		75.2	60-120	4.79	30	
Surrogate: o-Terphenyl	2.74		mg/Kg wet	3.33		82.3	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.

CERTIFICATIONS

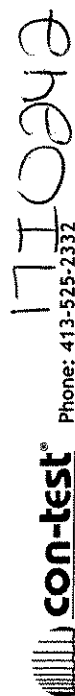
Certified Analyses included in this Report

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 Public 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



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers
Address: 273 Dividend Rd Rcohy 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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	WS-AOC-15-SD-17-2	9/7/17	1044		X	S	U
02	WS-AOC-15-SD-17-3	9/7/17	1045		X	S	U
03	WS-AOC-15-SD-18-1	9/7/17	1103		X	S	U
04	WS-AOC-15-SD-18-2	9/7/17	1104		X	S	U
05	WS-AOC-15-SD-18-3	9/7/17	1105		X	S	U
06	WS-AOC-15-SD-18-1	9/7/17	1137		X	S	U
07	WS-AOC-15-SD-18-2	9/7/17	1138		X	S	U
08	WS-AOC-15-SD-18-3	9/7/17	1139		X	S	U
09	WS-AOC-15-SD-19-1	9/7/17	1143		X	S	U
10	WS-AOC-15-SD-19-2	9/7/17	1144		X	S	U

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 1570	Detection Limit Requirements MA CT 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
Received by: (signature)	Date/Time: 9/7/17 1540		
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	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.	
Received by: (signature)	Date/Time: 9/7/17 17:05	PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT	

of Containers
Preservation Code
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)

ANALYSIS REQUESTED

RBs
E7PH
P914



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky 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 #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC-15-SO-19-3	9/7/17	1145		X	S	U
12	WS-AOC-15-SO-25-1	9/7/17	1214		X	S	U
13	WS-AOC-15-SO-25-2	9/7/17	1215		X	S	U
14	WS-AOC-15-SO-25-3	9/7/17	1216		X	S	U
15	WS-AOC-15-SO-20-1	9/7/17	1159		X	S	U
16	WS-AOC-15-SO-20-2	9/7/17	1201		X	S	U
17	WS-AOC-15-SO-20-3	9/7/17	1202		X	S	U
18	WS-AOC-15-SO-24-1	9/7/17	1213		X	S	U
19	WS-AOC-15-SO-24-2	9/7/17	1214		X	S	U
20	WS-AOC-15-SO-24-3	9/7/17	1215		X	S	U

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 1570	Detection Limit Requirements MA CT 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
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	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.	
Received by: (signature)	Date/Time: 9/7/17 17:05	PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT	

of Containers

Preservation Code

Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

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)

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

ANALYSIS REQUESTED

RES. Summary
ETPH

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 Engineers

Received By WCG Date 9/17/17 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 Client T Analysis T Sampler Name T
pertinent Information? 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
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

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.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