D:\HPCHEM\1\DATA\A081017\A0810006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/10/17
Data File Name	A0810006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	431989	461906	-6
c - 10	1.64	447601	461906	-3
c - 12	2.37	460504	461906	0
c - 14	3.05	469314	461906	2
c - 16	3.66	480138	461906	4
c - 18	4.29	474119	461906	3
o-Terphenyl	4.57	522769	461906	
c - 20	4.90	477615	461906	3
c - 22	5.40	480223	461906	4
c - 24	5.84	443377	461906	-4
c - 26	6.24	463794	461906	0
c - 28	6.60	458650	461906	-1
c - 30	6.93	461551	461906	0
c - 32	7.25	457112	461906	-1
c - 34	7.54	461242	461906	0
c - 36	7.90	461367	461906	0

* One compound allowed %D <= 50%

Samples

17H0058-12
17H0058-13
17H0059-06
17H0059-07
17H0059-11
17H0059-14
17H0059-17
17H0059-05
17H0058-06@5X
17H0058-08@5X
17H0058-18@5X
17H0059-03@5X
17H0064-07

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: 17H0064

Laboratory Sample ID(s):

17H0064-01 thru 17H0064-11

Sample Date(s):

08/01/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

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

Printed Name: **Lisa A. Worthington** **Date:** **08/25/17**

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

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

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

August 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: 17H0112

Enclosed are results of analyses for samples received by the laboratory on August 2, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0112

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-44	17H0112-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-33	17H0112-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-28	17H0112-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-20	17H0112-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-46	17H0112-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-32	17H0112-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-29	17H0112-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-22	17H0112-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-47	17H0112-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-34	17H0112-10	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-Dup5	17H0112-11	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-50	17H0112-12	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-36	17H0112-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-30	17H0112-14	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-23	17H0112-15	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-53	17H0112-16	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-40	17H0112-17	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-26	17H0112-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-38	17H0112-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-43	17H0112-20	Product/Solid		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.

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-44 Sampled: 8/2/2017 13:59

Sample ID: 17H0112-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/18/17 21:38
Decachlorobiphenyl [2]	109	30-150		8/18/17 21:38
Tetrachloro-m-xylene [1]	106	30-150		8/18/17 21:38
Tetrachloro-m-xylene [2]	114	30-150		8/18/17 21:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-33 Sampled: 8/2/2017 14:25

Sample ID: 17H0112-02

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		8/18/17 21:56
Decachlorobiphenyl [2]	104	30-150		8/18/17 21:56
Tetrachloro-m-xylene [1]	100	30-150		8/18/17 21:56
Tetrachloro-m-xylene [2]	108	30-150		8/18/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-28 Sampled: 8/2/2017 13:58

Sample ID: 17H0112-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		8/18/17 22:14
Decachlorobiphenyl [2]	97.1	30-150		8/18/17 22:14
Tetrachloro-m-xylene [1]	103	30-150		8/18/17 22:14
Tetrachloro-m-xylene [2]	112	30-150		8/18/17 22:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-20 Sampled: 8/2/2017 13:15

Sample ID: 17H0112-04

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		8/18/17 22:32
Decachlorobiphenyl [2]	94.3	30-150		8/18/17 22:32
Tetrachloro-m-xylene [1]	105	30-150		8/18/17 22:32
Tetrachloro-m-xylene [2]	114	30-150		8/18/17 22:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-46 Sampled: 8/2/2017 14:51

Sample ID: 17H0112-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.6	30-150		8/18/17 22:49
Decachlorobiphenyl [2]	99.3	30-150		8/18/17 22:49
Tetrachloro-m-xylene [1]	108	30-150		8/18/17 22:49
Tetrachloro-m-xylene [2]	118	30-150		8/18/17 22:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-32 Sampled: 8/2/2017 14:20

Sample ID: 17H0112-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1248 [2]	1.0	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1260 [2]	0.64	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		8/18/17 23:07
Decachlorobiphenyl [2]	93.3	30-150		8/18/17 23:07
Tetrachloro-m-xylene [1]	104	30-150		8/18/17 23:07
Tetrachloro-m-xylene [2]	113	30-150		8/18/17 23:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-29 Sampled: 8/2/2017 14:00

Sample ID: 17H0112-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.6	30-150		8/18/17 23:25
Decachlorobiphenyl [2]	92.5	30-150		8/18/17 23:25
Tetrachloro-m-xylene [1]	106	30-150		8/18/17 23:25
Tetrachloro-m-xylene [2]	112	30-150		8/18/17 23:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-22 Sampled: 8/2/2017 13:32

Sample ID: 17H0112-08

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		8/19/17 0:36
Decachlorobiphenyl [2]	96.8	30-150		8/19/17 0:36
Tetrachloro-m-xylene [1]	106	30-150		8/19/17 0:36
Tetrachloro-m-xylene [2]	116	30-150		8/19/17 0:36

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-47 Sampled: 8/2/2017 14:52

Sample ID: 17H0112-09

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		8/19/17 0:53
Decachlorobiphenyl [2]	103	30-150		8/19/17 0:53
Tetrachloro-m-xylene [1]	110	30-150		8/19/17 0:53
Tetrachloro-m-xylene [2]	119	30-150		8/19/17 0:53

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-34 Sampled: 8/2/2017 14:26

Sample ID: 17H0112-10

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		8/19/17 1:11
Decachlorobiphenyl [2]	90.8	30-150		8/19/17 1:11
Tetrachloro-m-xylene [1]	104	30-150		8/19/17 1:11
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 1:11

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-Dup5 Sampled: 8/2/2017 00:00

Sample ID: 17H0112-11

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		8/19/17 1:29
Decachlorobiphenyl [2]	88.7	30-150		8/19/17 1:29
Tetrachloro-m-xylene [1]	103	30-150		8/19/17 1:29
Tetrachloro-m-xylene [2]	110	30-150		8/19/17 1:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-50 Sampled: 8/2/2017 14:53

Sample ID: 17H0112-12

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/19/17 1:46
Decachlorobiphenyl [2]	95.5	30-150		8/19/17 1:46
Tetrachloro-m-xylene [1]	105	30-150		8/19/17 1:46
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 1:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-36 Sampled: 8/2/2017 14:33

Sample ID: 17H0112-13

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		8/19/17 2:04
Decachlorobiphenyl [2]	84.7	30-150		8/19/17 2:04
Tetrachloro-m-xylene [1]	97.6	30-150		8/19/17 2:04
Tetrachloro-m-xylene [2]	106	30-150		8/19/17 2:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-30 Sampled: 8/2/2017 14:02

Sample ID: 17H0112-14

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.9	30-150		8/19/17 2:22
Decachlorobiphenyl [2]	76.1	30-150		8/19/17 2:22
Tetrachloro-m-xylene [1]	87.4	30-150		8/19/17 2:22
Tetrachloro-m-xylene [2]	97.8	30-150		8/19/17 2:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC12E-AS-23 Sampled: 8/2/2017 13:36

Sample ID: 17H0112-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.1	30-150		8/19/17 2:39
Decachlorobiphenyl [2]	88.9	30-150		8/19/17 2:39
Tetrachloro-m-xylene [1]	100	30-150		8/19/17 2:39
Tetrachloro-m-xylene [2]	110	30-150		8/19/17 2:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-53 Sampled: 8/2/2017 14:54

Sample ID: 17H0112-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.4	30-150		8/19/17 2:57
Decachlorobiphenyl [2]	90.7	30-150		8/19/17 2:57
Tetrachloro-m-xylene [1]	97.0	30-150		8/19/17 2:57
Tetrachloro-m-xylene [2]	107	30-150		8/19/17 2:57

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-40 Sampled: 8/2/2017 14:42

Sample ID: 17H0112-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		8/19/17 3:15
Decachlorobiphenyl [2]	87.4	30-150		8/19/17 3:15
Tetrachloro-m-xylene [1]	102	30-150		8/19/17 3:15
Tetrachloro-m-xylene [2]	113	30-150		8/19/17 3:15

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-26 Sampled: 8/2/2017 13:40

Sample ID: 17H0112-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		8/19/17 3:32
Decachlorobiphenyl [2]	91.0	30-150		8/19/17 3:32
Tetrachloro-m-xylene [1]	105	30-150		8/19/17 3:32
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 3:32

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-38 Sampled: 8/2/2017 14:35

Sample ID: 17H0112-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1221 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1232 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1242 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1248 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1254 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1260 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1262 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1268 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		8/19/17 3:50
Decachlorobiphenyl [2]	82.6	30-150		8/19/17 3:50
Tetrachloro-m-xylene [1]	95.0	30-150		8/19/17 3:50
Tetrachloro-m-xylene [2]	105	30-150		8/19/17 3:50

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-43 Sampled: 8/2/2017 14:44

Sample ID: 17H0112-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1221 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1232 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1242 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1248 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1254 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1260 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1262 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1268 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		8/19/17 4:08
Decachlorobiphenyl [2]	94.9	30-150		8/19/17 4:08
Tetrachloro-m-xylene [1]	103	30-150		8/19/17 4:08
Tetrachloro-m-xylene [2]	112	30-150		8/19/17 4:08

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0112-01 [WS-AOC-12E-AS-44]	B183909	2.05	10.0	08/11/17
17H0112-02 [WS-AOC-12E-AS-33]	B183909	2.16	10.0	08/11/17
17H0112-03 [WS-AOC-12E-AS-28]	B183909	2.17	10.0	08/11/17
17H0112-04 [WS-AOC-12E-AS-20]	B183909	2.03	10.0	08/11/17
17H0112-05 [WS-AOC-12E-AS-46]	B183909	2.10	10.0	08/11/17
17H0112-06 [WS-AOC-12E-AS-32]	B183909	2.06	10.0	08/11/17
17H0112-07 [WS-AOC-12E-AS-29]	B183909	2.07	10.0	08/11/17
17H0112-08 [WS-AOC-12E-AS-22]	B183909	2.17	10.0	08/11/17
17H0112-09 [WS-AOC-12E-AS-47]	B183909	2.00	10.0	08/11/17
17H0112-10 [WS-AOC-12E-AS-34]	B183909	2.01	10.0	08/11/17
17H0112-11 [WS-AOC-12E-AS-Dup5]	B183909	2.09	10.0	08/11/17
17H0112-12 [WS-AOC-12E-AS-50]	B183909	2.05	10.0	08/11/17
17H0112-13 [WS-AOC-12E-AS-36]	B183909	2.03	10.0	08/11/17
17H0112-14 [WS-AOC-12E-AS-30]	B183909	2.00	10.0	08/11/17
17H0112-15 [WS-AOC12E-AS-23]	B183909	2.05	10.0	08/11/17
17H0112-16 [WS-AOC-12E-AS-53]	B183909	2.08	10.0	08/11/17
17H0112-17 [WS-AOC-12E-AS-40]	B183909	2.09	10.0	08/11/17
17H0112-18 [WS-AOC-12E-AS-26]	B183909	2.17	10.0	08/11/17
17H0112-19 [WS-AOC-12E-AS-38]	B183909	2.27	10.0	08/11/17
17H0112-20 [WS-AOC-12E-AS-43]	B183909	2.14	10.0	08/11/17

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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 B183909 - SW-846 3540C										
Blank (B183909-BLK1)				Prepared: 08/11/17 Analyzed: 08/18/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.999*		mg/Kg	1.00		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS (B183909-BS1)				Prepared: 08/11/17 Analyzed: 08/18/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		98.9	40-140			
Aroclor-1016 [2C]	0.98	0.10	mg/Kg	1.00		98.2	40-140			
Aroclor-1260	0.90	0.10	mg/Kg	1.00		89.5	40-140			
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.3	40-140			
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS Dup (B183909-BSD1)				Prepared: 08/11/17 Analyzed: 08/18/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		99.1	40-140	0.232	30	
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		99.6	40-140	1.38	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	0.879	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.1	40-140	0.203	30	
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.986*		mg/Kg	1.00		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	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 B183909 - SW-846 3540C										
Matrix Spike (B183909-MS1)		**Source: 17H0112-14**		Prepared: 08/11/17 Analyzed: 08/19/17						
Aroclor-1016	1.0	0.49	mg/Kg	0.971	ND	103	40-140			
Aroclor-1016 [2C]	1.2	0.49	mg/Kg	0.971	ND	120	40-140			
Aroclor-1260	0.86	0.49	mg/Kg	0.971	ND	88.3	40-140			
Aroclor-1260 [2C]	1.0	0.49	mg/Kg	0.971	ND	104	40-140			
Surrogate: Decachlorobiphenyl	*0.801*		mg/Kg	0.971		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.854*		mg/Kg	0.971		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.979*		mg/Kg	0.971		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	0.971		111	30-150			
Matrix Spike Dup (B183909-MSD1)		**Source: 17H0112-14**		Prepared: 08/11/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.47	mg/Kg	0.948	ND	99.5	40-140	5.64	50	
Aroclor-1016 [2C]	1.1	0.47	mg/Kg	0.948	ND	114	40-140	7.31	50	
Aroclor-1260	0.82	0.47	mg/Kg	0.948	ND	86.3	40-140	4.69	50	
Aroclor-1260 [2C]	0.96	0.47	mg/Kg	0.948	ND	101	40-140	5.34	50	
Surrogate: Decachlorobiphenyl	*0.772*		mg/Kg	0.948		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.821*		mg/Kg	0.948		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.944*		mg/Kg	0.948		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	0.948		109	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-32

Lab Sample ID: 17H0112-06

Date(s) Analyzed: 08/18/2017 08/18/2017

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-1248	1	0.000	0.000	0.000	0.72	
	2	0.000	0.000	0.000	1.0	32.6
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.64	24.6

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

17H0112

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Doc # 381 Rev 0 5 8 2015

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 5

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB w/ Soxhlet extraction											# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-12E-AS-44	8/2/17	1357		X	O	U	X													
02	WS-AOC-12E-AS-33	↓	1425		↓	↓	↓	↓													
03	WS-AOC-12E-AS-28		1358																		
04	WS-AOC-12E-AS-20		1315																		
05	WS-AOC-12E-AS-46		1451																		
06	WS-AOC-12E-AS-32		1420																		
07	WS-AOC-12E-AS-29		1400																		
08	WS-AOC-12E-AS-22		1332																		
09	WS-AOC-12E-AS-47		1452																		
10	WS-AOC-12E-AS-34	↓	1426		↓	↓	↓	↓													

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) Asphalt

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	8/2/17 1525
Received by: (signature) Tom Mau	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mau	Date/Time: 8/2/17 1755
Received by: (signature) [signature]	Date/Time: 8/2/17 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

con-test ANALYTICAL LABORATORY
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Email: info@contestlabs.com

17H0112

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED: PCB w/ Soxhlet extraction

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
11	WS-AOC-12E-AS-DUP	8/2/17	–		X	O	V
12	WS-AOC-12E-AS-50		1453				
13	WS-AOC-12E-AS-36		1433				
14	WS-AOC-12E-AS-30		1402				
15	WS-AOC12E-AS-23		1336				
16	WS-AOC-12E-AS-53		1454				
17	WS-AOC-12E-AS-40		1442				
18	WS-AOC-12E-AS-26		1340				
19	WS-AOC-12E-AS-38		1435				
20	WS-AOC-12E-AS-43		1444				

Comments: WS-AOC-12E-AS-30 is MS/MSD

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

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time:
[signature]	8/2/17 1525
Received by: (signature) Tom Mai	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mai	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Cuesky + Sampson

Received By PLF Date 8/2/17 Time 1755

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 - 2.9°C
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	22
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: 17H0112

Laboratory Sample ID(s):

17H0112-01 thru 17H0112-20

Sample Date(s):

08/02/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/21/17**

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

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

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

August 23, 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: 17H0114

Enclosed are results of analyses for samples received by the laboratory on August 2, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/23/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0114

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-CO-127	17H0114-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-126	17H0114-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-128	17H0114-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-125	17H0114-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-124	17H0114-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-123	17H0114-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-122	17H0114-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-121	17H0114-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-6	17H0114-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-7	17H0114-10	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-8	17H0114-11	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-9	17H0114-12	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-10	17H0114-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-11	17H0114-14	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-12	17H0114-15	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-13	17H0114-16	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-14	17H0114-17	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-15	17H0114-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-16	17H0114-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-18	17H0114-20	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-19	17H0114-21	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-Dup4	17H0114-22	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-27	17H0114-23	Product/Solid		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.

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-127 Sampled: 8/2/2017 08:30

Sample ID: 17H0114-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.3	30-150		8/22/17 17:28
Decachlorobiphenyl [2]	101	30-150		8/22/17 17:28
Tetrachloro-m-xylene [1]	99.5	30-150		8/22/17 17:28
Tetrachloro-m-xylene [2]	108	30-150		8/22/17 17:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-126 Sampled: 8/2/2017 08:25

Sample ID: 17H0114-02

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	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		8/22/17 17:45
Decachlorobiphenyl [2]	98.6	30-150		8/22/17 17:45
Tetrachloro-m-xylene [1]	97.5	30-150		8/22/17 17:45
Tetrachloro-m-xylene [2]	105	30-150		8/22/17 17:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-128 Sampled: 8/2/2017 08:55

Sample ID: 17H0114-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		8/22/17 18:03
Decachlorobiphenyl [2]	95.2	30-150		8/22/17 18:03
Tetrachloro-m-xylene [1]	93.6	30-150		8/22/17 18:03
Tetrachloro-m-xylene [2]	100	30-150		8/22/17 18:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-125 Sampled: 8/2/2017 09:25

Sample ID: 17H0114-04

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	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/22/17 18:21
Decachlorobiphenyl [2]	112	30-150		8/22/17 18:21
Tetrachloro-m-xylene [1]	110	30-150		8/22/17 18:21
Tetrachloro-m-xylene [2]	119	30-150		8/22/17 18:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-124 Sampled: 8/2/2017 09:35

Sample ID: 17H0114-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		8/22/17 18:39
Decachlorobiphenyl [2]	94.1	30-150		8/22/17 18:39
Tetrachloro-m-xylene [1]	92.3	30-150		8/22/17 18:39
Tetrachloro-m-xylene [2]	101	30-150		8/22/17 18:39

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-123 Sampled: 8/2/2017 10:00

Sample ID: 17H0114-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/22/17 18:56
Decachlorobiphenyl [2]	81.7	30-150		8/22/17 18:56
Tetrachloro-m-xylene [1]	79.6	30-150		8/22/17 18:56
Tetrachloro-m-xylene [2]	86.8	30-150		8/22/17 18:56

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-122 Sampled: 8/2/2017 10:40

Sample ID: 17H0114-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.3	30-150		8/22/17 19:14
Decachlorobiphenyl [2]	96.4	30-150		8/22/17 19:14
Tetrachloro-m-xylene [1]	95.2	30-150		8/22/17 19:14
Tetrachloro-m-xylene [2]	103	30-150		8/22/17 19:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-121 Sampled: 8/2/2017 10:30

Sample ID: 17H0114-08

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	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/22/17 19:32
Decachlorobiphenyl [2]	111	30-150		8/22/17 19:32
Tetrachloro-m-xylene [1]	107	30-150		8/22/17 19:32
Tetrachloro-m-xylene [2]	116	30-150		8/22/17 19:32

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-6 Sampled: 8/2/2017 10:55

Sample ID: 17H0114-09

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		8/22/17 20:38
Decachlorobiphenyl [2]	88.3	30-150		8/22/17 20:38
Tetrachloro-m-xylene [1]	85.0	30-150		8/22/17 20:38
Tetrachloro-m-xylene [2]	95.4	30-150		8/22/17 20:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-7 Sampled: 8/2/2017 11:00

Sample ID: 17H0114-10

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		8/22/17 20:56
Decachlorobiphenyl [2]	88.6	30-150		8/22/17 20:56
Tetrachloro-m-xylene [1]	88.3	30-150		8/22/17 20:56
Tetrachloro-m-xylene [2]	99.0	30-150		8/22/17 20:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-8 Sampled: 8/2/2017 11:10

Sample ID: 17H0114-11

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		8/22/17 21:13
Decachlorobiphenyl [2]	91.0	30-150		8/22/17 21:13
Tetrachloro-m-xylene [1]	86.7	30-150		8/22/17 21:13
Tetrachloro-m-xylene [2]	98.0	30-150		8/22/17 21:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-9 Sampled: 8/2/2017 11:27

Sample ID: 17H0114-12

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	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1221 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1232 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1242 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1248 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1254 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1260 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1262 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1268 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		8/22/17 21:31
Decachlorobiphenyl [2]	78.0	30-150		8/22/17 21:31
Tetrachloro-m-xylene [1]	76.6	30-150		8/22/17 21:31
Tetrachloro-m-xylene [2]	86.7	30-150		8/22/17 21:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-10 Sampled: 8/2/2017 11:31

Sample ID: 17H0114-13

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.1	30-150		8/22/17 21:49
Decachlorobiphenyl [2]	56.7	30-150		8/22/17 21:49
Tetrachloro-m-xylene [1]	60.2	30-150		8/22/17 21:49
Tetrachloro-m-xylene [2]	68.8	30-150		8/22/17 21:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-11 Sampled: 8/2/2017 11:38

Sample ID: 17H0114-14

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	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1221 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1232 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1242 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1248 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1254 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1260 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1262 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1268 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/22/17 22:07
Decachlorobiphenyl [2]	81.5	30-150		8/22/17 22:07
Tetrachloro-m-xylene [1]	85.1	30-150		8/22/17 22:07
Tetrachloro-m-xylene [2]	95.1	30-150		8/22/17 22:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-12 Sampled: 8/2/2017 11:50

Sample ID: 17H0114-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		8/22/17 22:24
Decachlorobiphenyl [2]	79.3	30-150		8/22/17 22:24
Tetrachloro-m-xylene [1]	89.4	30-150		8/22/17 22:24
Tetrachloro-m-xylene [2]	99.7	30-150		8/22/17 22:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-13 Sampled: 8/2/2017 11:56

Sample ID: 17H0114-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.0	30-150		8/22/17 22:42
Decachlorobiphenyl [2]	74.0	30-150		8/22/17 22:42
Tetrachloro-m-xylene [1]	78.4	30-150		8/22/17 22:42
Tetrachloro-m-xylene [2]	88.3	30-150		8/22/17 22:42

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-14 Sampled: 8/2/2017 12:01

Sample ID: 17H0114-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/22/17 23:00
Decachlorobiphenyl [2]	64.6	30-150		8/22/17 23:00
Tetrachloro-m-xylene [1]	72.5	30-150		8/22/17 23:00
Tetrachloro-m-xylene [2]	81.7	30-150		8/22/17 23:00

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-15 Sampled: 8/2/2017 12:00

Sample ID: 17H0114-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.4	30-150		8/22/17 23:18
Decachlorobiphenyl [2]	78.1	30-150		8/22/17 23:18
Tetrachloro-m-xylene [1]	85.2	30-150		8/22/17 23:18
Tetrachloro-m-xylene [2]	95.0	30-150		8/22/17 23:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-16 Sampled: 8/2/2017 12:11

Sample ID: 17H0114-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.6	30-150		8/22/17 23:35
Decachlorobiphenyl [2]	81.3	30-150		8/22/17 23:35
Tetrachloro-m-xylene [1]	88.4	30-150		8/22/17 23:35
Tetrachloro-m-xylene [2]	97.5	30-150		8/22/17 23:35

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-18 Sampled: 8/2/2017 13:05

Sample ID: 17H0114-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/22/17 23:53
Decachlorobiphenyl [2]	82.6	30-150		8/22/17 23:53
Tetrachloro-m-xylene [1]	90.9	30-150		8/22/17 23:53
Tetrachloro-m-xylene [2]	100	30-150		8/22/17 23:53

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-19 Sampled: 8/2/2017 13:11

Sample ID: 17H0114-21

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	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.5	30-150		8/15/17 14:39
Decachlorobiphenyl [2]	66.5	30-150		8/15/17 14:39
Tetrachloro-m-xylene [1]	83.7	30-150		8/15/17 14:39
Tetrachloro-m-xylene [2]	70.2	30-150		8/15/17 14:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-Dup4 Sampled: 8/2/2017 00:00

Sample ID: 17H0114-22

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	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1260 [1]	0.14	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1268 [1]	0.11	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.8	30-150		8/15/17 14:57
Decachlorobiphenyl [2]	43.3	30-150		8/15/17 14:57
Tetrachloro-m-xylene [1]	61.2	30-150		8/15/17 14:57
Tetrachloro-m-xylene [2]	54.5	30-150		8/15/17 14:57

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-27 Sampled: 8/2/2017 13:44

Sample ID: 17H0114-23

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	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1242 [2]	0.13	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1260 [1]	0.14	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/15/17 15:16
Decachlorobiphenyl [2]	66.1	30-150		8/15/17 15:16
Tetrachloro-m-xylene [1]	85.0	30-150		8/15/17 15:16
Tetrachloro-m-xylene [2]	74.2	30-150		8/15/17 15:16

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0114-01 [WS-AOC-12W-CO-127]	B183910	2.11	10.0	08/11/17
17H0114-02 [WS-AOC-12W-CO-126]	B183910	2.13	10.0	08/11/17
17H0114-03 [WS-AOC-12W-CO-128]	B183910	2.14	10.0	08/11/17
17H0114-04 [WS-AOC-12W-CO-125]	B183910	2.03	10.0	08/11/17
17H0114-05 [WS-AOC-12W-CO-124]	B183910	2.14	10.0	08/11/17
17H0114-06 [WS-AOC-12W-CO-123]	B183910	2.18	10.0	08/11/17
17H0114-07 [WS-AOC-12W-CO-122]	B183910	2.07	10.0	08/11/17
17H0114-08 [WS-AOC-12W-CO-121]	B183910	2.24	10.0	08/11/17
17H0114-09 [WS-AOC-12E-AS-6]	B183910	2.16	10.0	08/11/17
17H0114-10 [WS-AOC-12E-AS-7]	B183910	2.19	10.0	08/11/17
17H0114-11 [WS-AOC-12E-AS-8]	B183910	2.19	10.0	08/11/17
17H0114-12 [WS-AOC-12E-AS-9]	B183910	2.14	10.0	08/11/17
17H0114-13 [WS-AOC-12E-AS-10]	B183910	2.03	10.0	08/11/17
17H0114-14 [WS-AOC-12E-AS-11]	B183910	2.27	10.0	08/11/17
17H0114-15 [WS-AOC-12E-AS-12]	B183910	2.23	10.0	08/11/17
17H0114-16 [WS-AOC-12E-AS-13]	B183910	2.02	10.0	08/11/17
17H0114-17 [WS-AOC-12E-AS-14]	B183910	2.04	10.0	08/11/17
17H0114-18 [WS-AOC-12E-AS-15]	B183910	2.22	10.0	08/11/17
17H0114-19 [WS-AOC-12E-AS-16]	B183910	2.06	10.0	08/11/17
17H0114-20 [WS-AOC-12E-AS-18]	B183910	2.00	10.0	08/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0114-21RE1 [WS-AOC-12E-AS-19]	B183952	2.15	10.0	08/13/17
17H0114-22RE1 [WS-AOC-12E-AS-Dup4]	B183952	2.04	10.0	08/13/17
17H0114-23RE1 [WS-AOC-12E-AS-27]	B183952	2.36	10.0	08/13/17

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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
Batch B183910 - SW-846 3540C										
Blank (B183910-BLK1)				Prepared: 08/11/17 Analyzed: 08/22/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.983*		mg/Kg	1.00		98.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.974*		mg/Kg	1.00		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS (B183910-BS1)				Prepared: 08/11/17 Analyzed: 08/22/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.8	40-140			
Aroclor-1016 [2C]	0.94	0.10	mg/Kg	1.00		94.5	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.0	40-140			
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		81.5	40-140			
Surrogate: Decachlorobiphenyl	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
LCS Dup (B183910-BSD1)				Prepared: 08/11/17 Analyzed: 08/22/17						
Aroclor-1016	0.76	0.10	mg/Kg	1.00		76.1	40-140	18.6	30	
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		80.0	40-140	16.6	30	
Aroclor-1260	0.67	0.10	mg/Kg	1.00		66.8	40-140	20.4	30	
Aroclor-1260 [2C]	0.69	0.10	mg/Kg	1.00		69.1	40-140	16.5	30	
Surrogate: Decachlorobiphenyl	*0.772*		mg/Kg	1.00		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.794*		mg/Kg	1.00		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.854*		mg/Kg	1.00		85.4	30-150			

con-test® ANALYTICAL LABORATORY

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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 B183910 - SW-846 3540C										
Matrix Spike (B183910-MS1)		**Source: 17H0114-19**		Prepared: 08/11/17 Analyzed: 08/23/17						
Aroclor-1016	0.87	0.47	mg/Kg	0.939	ND	92.9	40-140			
Aroclor-1016 [2C]	1.0	0.47	mg/Kg	0.939	ND	108	40-140			
Aroclor-1260	0.98	0.47	mg/Kg	0.939	ND	104	40-140			
Aroclor-1260 [2C]	1.1	0.47	mg/Kg	0.939	ND	121	40-140			
Surrogate: Decachlorobiphenyl	*0.682*		mg/Kg	0.939		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.785*		mg/Kg	0.939		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.827*		mg/Kg	0.939		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.919*		mg/Kg	0.939		97.9	30-150			
Matrix Spike Dup (B183910-MSD1)		**Source: 17H0114-19**		Prepared: 08/11/17 Analyzed: 08/23/17						
Aroclor-1016	0.89	0.47	mg/Kg	0.930	ND	95.3	40-140	1.65	50	
Aroclor-1016 [2C]	1.0	0.47	mg/Kg	0.930	ND	109	40-140	0.188	50	
Aroclor-1260	0.95	0.47	mg/Kg	0.930	ND	102	40-140	3.43	50	
Aroclor-1260 [2C]	1.1	0.47	mg/Kg	0.930	ND	118	40-140	3.77	50	
Surrogate: Decachlorobiphenyl	*0.702*		mg/Kg	0.930		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.794*		mg/Kg	0.930		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.838*		mg/Kg	0.930		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.933*		mg/Kg	0.930		100	30-150			
Batch B183952 - SW-846 3540C										
Blank (B183952-BLK1)				Prepared: 08/13/17 Analyzed: 08/15/17						
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	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.903*		mg/Kg	1.00		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.822*		mg/Kg	1.00		82.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183952 - SW-846 3540C										
LCS (B183952-BS1)				Prepared: 08/13/17 Analyzed: 08/15/17						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		84.7	40-140			
Aroclor-1016 [2C]	0.83	0.10	mg/Kg	1.00		82.9	40-140			
Aroclor-1260	0.78	0.10	mg/Kg	1.00		78.4	40-140			
Aroclor-1260 [2C]	0.72	0.10	mg/Kg	1.00		72.0	40-140			
Surrogate: Decachlorobiphenyl	*0.965*		mg/Kg	1.00		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.876*		mg/Kg	1.00		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.851*		mg/Kg	1.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.779*		mg/Kg	1.00		77.9	30-150			
LCS Dup (B183952-BSD1)				Prepared: 08/13/17 Analyzed: 08/15/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		94.4	40-140	10.9	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.1	40-140	9.40	30	
Aroclor-1260	0.87	0.10	mg/Kg	1.00		86.9	40-140	10.3	30	
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		80.2	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.984*		mg/Kg	1.00		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.850*		mg/Kg	1.00		85.0	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-Dup4

Lab Sample ID: 17H0114-22RE1 Date(s) Analyzed: 08/15/2017 08/15/2017

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	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.12	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-27

Lab Sample ID: 17H0114-23RE1

Date(s) Analyzed: 08/15/2017 08/15/2017

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-1242	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.13	8.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.12	15.4

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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.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

con-test ANALYTICAL LABORATORY
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Fax: 413-525-6405
Email: info@contestlabs.com

17H0114

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC12W-CO-127	8/2/17	8:30		X	O	U	X			
02	WS-AOC12W-CO-126		8:25								
03	WS-AOC12W-CO-128		8:55								
04	WS-AOC12W-CO-125		9:25								
05	WS-AOC12W-CO-124		9:35								
06	WS-AOC12W-CO-123		10:00								
07	WS-AOC12W-CO-122		10:40								
08	WS-AOC12W-CO-121		10:30								
09	WS-AOC12E-AS-6		10:55								
10	WS-AOC12E-AS-7		11:00								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 8/2/17 1525
Received by: (signature) Tom Mau	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mau	Date/Time: 8/2/17 1755
Received by: (signature) 2.9C	Date/Time: 8/2/17 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

17H0114

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soil 4/20	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOCIZE-AS-8	8/2/17	11:10		X	O	U	X			
12	WS-AOCIZE-AS-9	↓	11:27		↓	↓	↓	↓			
13	WS-AOCIZE-AS-10		11:31								
14	WS-AOCIZE-AS-11		11:38								
15	WS-AOCIZE-AS-12		11:50								
16	WS-AOCIZE-AS-13		11:56								
17	WS-AOCIZE-AS-14		12:01								
18	WS-AOCIZE-AS-15		12:00								
19	WS-AOCIZE-AS-16		12:11								
20	WS-AOCIZE-AS-18		13:05								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOCIZE-AS-16 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

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

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

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

Relinquished by: (signature)	Date/Time: 8/2/17 1525
Received by: (signature) Tom Mai	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mai	Date/Time: 8/2/17 1755
Received by: (signature) 2.9°C	Date/Time: 8/2/17 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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

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17H0114 17H00

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

PCBs Soxhlet

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC12E-AS-19	8/2/17	13:11		X	O	U	X			
	~~DUP~~										
22	WS-AOC12E-AS-DUP-4	8/2/17			X	O	U	X			
23	WS-AOC12E-AS-27	8/2/17	1344		X	O	U	X			

Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 8/2/17 1525
Received by: (signature) Tom Mair	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mair	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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

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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 Wesley + Sampson

Received By RLF Date 8/2/17 Time 1755

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 - 2.9°C
By Blank # ___ Actual Temp - ___

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	25
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: 17H0114

Laboratory Sample ID(s):

17H0114-01 thru 17H0114-23

Sample Date(s):

08/02/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/23/17**

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

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

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

August 17, 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: 17H0196

Enclosed are results of analyses for samples received by the laboratory on August 3, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0196

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-AOC2-SO-2-1	17H0196-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-2-2	17H0196-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-3-1	17H0196-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-3-2	17H0196-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-1-1	17H0196-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-1-2	17H0196-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-4-1	17H0196-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-4-2	17H0196-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	17H0196-09	Trip Blank Soil		SW-846 8260C	

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

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0196

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-AOC2-SO-Dup-45	17H0196-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-SO-Dup-46	17H0196-11	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183939-MS1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Fluoranthene
17H0196-05[WS-AOC2-SO-1-1]

Pyrene
17H0196-05[WS-AOC2-SO-1-1]

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:

Benzo(a)anthracene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Benzo(g,h,i)perylene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Chrysene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Fluoranthene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Pyrene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Benzo(b)fluoranthene
B183764-MSD1

Dibenz(a,h)anthracene
B183764-MS1

Phenanthrene
B183764-MSD1

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Acrylonitrile	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromomethane	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloromethane	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3-Dichloropropane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
cis-1,3-Dichloropropene	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,3-Dichloropropene	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Tetrahydrofuran	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Vinyl Chloride	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.8	70-130		8/8/17 9:51
Toluene-d8	92.8	70-130		8/8/17 9:51
4-Bromofluorobenzene	88.0	70-130		8/8/17 9:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Acenaphthylene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Anthracene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(a)anthracene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(a)pyrene	1.4	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(b)fluoranthene	1.6	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(g,h,i)perylene	1.0	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(k)fluoranthene	0.62	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Chrysene	0.91	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Dibenz(a,h)anthracene	0.25	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Fluoranthene	1.8	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Indeno(1,2,3-cd)pyrene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Phenanthrene	0.47	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Pyrene	2.3	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.0	30-130		8/11/17 18:57
2-Fluorobiphenyl	62.5	30-130		8/11/17 18:57
p-Terphenyl-d14	70.6	30-130		8/11/17 18:57

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/15/17 23:30
Decachlorobiphenyl [2]	83.5	30-150		8/15/17 23:30
Tetrachloro-m-xylene [1]	95.7	30-150		8/15/17 23:30
Tetrachloro-m-xylene [2]	87.7	30-150		8/15/17 23:30

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	54	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 1:27	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.0	50-150		8/11/17 1:27

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	92.5		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Acrylonitrile	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Carbon Disulfide	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.9	70-130		8/8/17 10:18
Toluene-d8	93.2	70-130		8/8/17 10:18
4-Bromofluorobenzene	84.4	70-130		8/8/17 10:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Pyrene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	82.8	30-130		8/11/17 19:22
2-Fluorobiphenyl	79.6	30-130		8/11/17 19:22
p-Terphenyl-d14	89.8	30-130		8/11/17 19:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.7	30-150		8/15/17 23:48
Decachlorobiphenyl [2]	90.4	30-150		8/15/17 23:48
Tetrachloro-m-xylene [1]	97.4	30-150		8/15/17 23:48
Tetrachloro-m-xylene [2]	91.9	30-150		8/15/17 23:48

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	720	110	mg/Kg dry	10		CTDEP ETPH	8/10/17	8/11/17 1:45	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.5	50-150		8/11/17 1:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	89.6		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.6	70-130		8/8/17 10:46
Toluene-d8	91.2	70-130		8/8/17 10:46
4-Bromofluorobenzene	91.8	70-130		8/8/17 10:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Anthracene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(a)anthracene	0.73	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(a)pyrene	0.82	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(b)fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(g,h,i)perylene	0.49	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(k)fluoranthene	0.34	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Chrysene	0.63	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Fluoranthene	1.6	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Indeno(1,2,3-cd)pyrene	0.53	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Phenanthrene	0.89	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Pyrene	1.6	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.2	30-130		8/11/17 19:46
2-Fluorobiphenyl	72.2	30-130		8/11/17 19:46
p-Terphenyl-d14	82.9	30-130		8/11/17 19:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		8/16/17 0:06
Decachlorobiphenyl [2]	86.3	30-150		8/16/17 0:06
Tetrachloro-m-xylene [1]	94.5	30-150		8/16/17 0:06
Tetrachloro-m-xylene [2]	87.8	30-150		8/16/17 0:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	54	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 2:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.5	50-150		8/11/17 2:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	92.1		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Acrylonitrile	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromomethane	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloromethane	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3-Dichloropropane	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
cis-1,3-Dichloropropene	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,3-Dichloropropene	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Tetrahydrofuran	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Vinyl Chloride	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.9	70-130		8/8/17 11:13
Toluene-d8	94.3	70-130		8/8/17 11:13
4-Bromofluorobenzene	86.4	70-130		8/8/17 11:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(a)anthracene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(a)pyrene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(b)fluoranthene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(g,h,i)perylene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Indeno(1,2,3-cd)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Pyrene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	74.3	30-130		8/11/17 20:11
2-Fluorobiphenyl	68.4	30-130		8/11/17 20:11
p-Terphenyl-d14	81.5	30-130		8/11/17 20:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		8/16/17 0:24
Decachlorobiphenyl [2]	83.8	30-150		8/16/17 0:24
Tetrachloro-m-xylene [1]	87.0	30-150		8/16/17 0:24
Tetrachloro-m-xylene [2]	81.5	30-150		8/16/17 0:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	29	11	mg/Kg dry	1		CTDEP ETPH	8/10/17	8/10/17 23:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	80.2	50-150		8/10/17 23:58

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	89.2		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Acrylonitrile	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Benzene	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.2	70-130		8/8/17 11:40
Toluene-d8	93.1	70-130		8/8/17 11:40
4-Bromofluorobenzene	86.0	70-130		8/8/17 11:40

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Acenaphthene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Acenaphthylene	0.58	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Acenaphthylene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Anthracene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Anthracene	0.95	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(a)anthracene	3.3	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(a)anthracene	3.0	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(a)pyrene	3.7	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(a)pyrene	3.2	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(b)fluoranthene	4.2	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(b)fluoranthene	3.9	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(g,h,i)perylene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(g,h,i)perylene	1.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(k)fluoranthene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(k)fluoranthene	1.5	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Chrysene	2.9	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Chrysene	2.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Dibenz(a,h)anthracene	0.52	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Dibenz(a,h)anthracene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Fluoranthene	8.9	0.19	mg/Kg dry	1	E	SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Fluoranthene	7.5	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Fluorene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Indeno(1,2,3-cd)pyrene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Indeno(1,2,3-cd)pyrene	1.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
2-Methylnaphthalene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Naphthalene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Phenanthrene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Phenanthrene	2.0	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Pyrene	10	0.19	mg/Kg dry	1	E	SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Pyrene	7.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	59.6	30-130		8/11/17 20:35
Nitrobenzene-d5	60.2	30-130		8/14/17 12:25
2-Fluorobiphenyl	60.1	30-130		8/11/17 20:35
2-Fluorobiphenyl	55.5	30-130		8/14/17 12:25
p-Terphenyl-d14	73.7	30-130		8/11/17 20:35
p-Terphenyl-d14	58.6	30-130		8/14/17 12:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		8/16/17 0:43
Decachlorobiphenyl [2]	84.6	30-150		8/16/17 0:43
Tetrachloro-m-xylene [1]	88.6	30-150		8/16/17 0:43
Tetrachloro-m-xylene [2]	80.4	30-150		8/16/17 0:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	370	56	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 2:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.6	50-150		8/11/17 2:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Acrylonitrile	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromomethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloromethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3-Dichloropropane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
cis-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Tetrahydrofuran	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Vinyl Chloride	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.8	70-130		8/8/17 12:07
Toluene-d8	93.0	70-130		8/8/17 12:07
4-Bromofluorobenzene	87.8	70-130		8/8/17 12:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	8/10/17	8/11/17 20:59	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.7	30-130		8/11/17 20:59
2-Fluorobiphenyl	72.8	30-130		8/11/17 20:59
p-Terphenyl-d14	93.8	30-130		8/11/17 20:59

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/16/17 1:01
Decachlorobiphenyl [2]	95.8	30-150		8/16/17 1:01
Tetrachloro-m-xylene [1]	97.8	30-150		8/16/17 1:01
Tetrachloro-m-xylene [2]	93.0	30-150		8/16/17 1:01

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	29	12	mg/Kg dry	1		CTDEP ETPH	8/10/17	8/11/17 0:16	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.2	50-150		8/11/17 0:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	86.1		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Acrylonitrile	ND	0.0046	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chlorodibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.8	70-130		8/8/17 12:34
Toluene-d8	92.2	70-130		8/8/17 12:34
4-Bromofluorobenzene	85.6	70-130		8/8/17 12:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	8/10/17	8/11/17 21:23	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(a)anthracene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(a)pyrene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(b)fluoranthene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(g,h,i)perylene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(k)fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Chrysene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Fluoranthene	0.67	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Indeno(1,2,3-cd)pyrene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Phenanthrene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Pyrene	0.81	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.8	30-130		8/11/17 21:23
2-Fluorobiphenyl	67.3	30-130		8/11/17 21:23
p-Terphenyl-d14	80.8	30-130		8/11/17 21:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.6	30-150		8/16/17 1:19
Decachlorobiphenyl [2]	84.7	30-150		8/16/17 1:19
Tetrachloro-m-xylene [1]	92.1	30-150		8/16/17 1:19
Tetrachloro-m-xylene [2]	84.1	30-150		8/16/17 1:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	55	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 3:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.7	50-150		8/11/17 3:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	91.0		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Acrylonitrile	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.8	70-130		8/8/17 13:01
Toluene-d8	95.6	70-130		8/8/17 13:01
4-Bromofluorobenzene	87.7	70-130		8/8/17 13:01

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	8/10/17	8/11/17 21:47	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(b)fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Pyrene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	73.6	30-130		8/11/17 21:47
2-Fluorobiphenyl	72.6	30-130		8/11/17 21:47
p-Terphenyl-d14	83.6	30-130		8/11/17 21:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		8/16/17 1:37
Decachlorobiphenyl [2]	93.7	30-150		8/16/17 1:37
Tetrachloro-m-xylene [1]	94.2	30-150		8/16/17 1:37
Tetrachloro-m-xylene [2]	89.1	30-150		8/16/17 1:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	8/10/17	8/10/17 17:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.8	50-150		8/10/17 17:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: Trip Blank Sampled: 8/3/2017 00:00

Sample ID: 17H0196-09

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: Trip Blank Sampled: 8/3/2017 00:00

Sample ID: 17H0196-09

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.0	70-130		8/8/17 13:28
Toluene-d8	92.9	70-130		8/8/17 13:28
4-Bromofluorobenzene	87.8	70-130		8/8/17 13:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-Dup-45 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		8/16/17 1:55
Decachlorobiphenyl [2]	86.1	30-150		8/16/17 1:55
Tetrachloro-m-xylene [1]	90.8	30-150		8/16/17 1:55
Tetrachloro-m-xylene [2]	80.9	30-150		8/16/17 1:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-Dup-45 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC-SO-Dup-46 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-11

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/16/17 2:14
Decachlorobiphenyl [2]	78.9	30-150		8/16/17 2:14
Tetrachloro-m-xylene [1]	90.7	30-150		8/16/17 2:14
Tetrachloro-m-xylene [2]	81.3	30-150		8/16/17 2:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC-SO-Dup-46 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-11

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	89.3		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183762	30.0	1.00	08/10/17
17H0196-02 [WS-AOC2-SO-2-2]	B183762	30.0	1.00	08/10/17
17H0196-03 [WS-AOC2-SO-3-1]	B183762	30.0	1.00	08/10/17
17H0196-04 [WS-AOC2-SO-3-2]	B183762	30.0	1.00	08/10/17
17H0196-05 [WS-AOC2-SO-1-1]	B183762	30.0	1.00	08/10/17
17H0196-06 [WS-AOC2-SO-1-2]	B183762	30.0	1.00	08/10/17
17H0196-07 [WS-AOC2-SO-4-1]	B183762	30.0	1.00	08/10/17
17H0196-08 [WS-AOC2-SO-4-2]	B183762	30.0	1.00	08/10/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183650	08/09/17
17H0196-02 [WS-AOC2-SO-2-2]	B183650	08/09/17
17H0196-03 [WS-AOC2-SO-3-1]	B183650	08/09/17
17H0196-04 [WS-AOC2-SO-3-2]	B183650	08/09/17
17H0196-05 [WS-AOC2-SO-1-1]	B183650	08/09/17
17H0196-06 [WS-AOC2-SO-1-2]	B183650	08/09/17
17H0196-07 [WS-AOC2-SO-4-1]	B183650	08/09/17
17H0196-08 [WS-AOC2-SO-4-2]	B183650	08/09/17
17H0196-10 [WS-AOC2-SO-Dup-45]	B183650	08/09/17
17H0196-11 [WS-AOC-SO-Dup-46]	B183650	08/09/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183939	10.0	10.0	08/12/17
17H0196-02 [WS-AOC2-SO-2-2]	B183939	10.0	10.0	08/12/17
17H0196-03 [WS-AOC2-SO-3-1]	B183939	10.0	10.0	08/12/17
17H0196-04 [WS-AOC2-SO-3-2]	B183939	10.0	10.0	08/12/17
17H0196-05 [WS-AOC2-SO-1-1]	B183939	10.0	10.0	08/12/17
17H0196-06 [WS-AOC2-SO-1-2]	B183939	10.0	10.0	08/12/17
17H0196-07 [WS-AOC2-SO-4-1]	B183939	10.0	10.0	08/12/17
17H0196-08 [WS-AOC2-SO-4-2]	B183939	10.0	10.0	08/12/17
17H0196-10 [WS-AOC2-SO-Dup-45]	B183939	10.0	10.0	08/12/17
17H0196-11 [WS-AOC-SO-Dup-46]	B183939	10.0	10.0	08/12/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183601	7.76	10.0	08/08/17
17H0196-02 [WS-AOC2-SO-2-2]	B183601	8.12	10.0	08/08/17
17H0196-03 [WS-AOC2-SO-3-1]	B183601	7.57	10.0	08/08/17
17H0196-04 [WS-AOC2-SO-3-2]	B183601	8.71	10.0	08/08/17
17H0196-05 [WS-AOC2-SO-1-1]	B183601	8.00	10.0	08/08/17
17H0196-06 [WS-AOC2-SO-1-2]	B183601	8.82	10.0	08/08/17
17H0196-07 [WS-AOC2-SO-4-1]	B183601	7.21	10.0	08/08/17
17H0196-08 [WS-AOC2-SO-4-2]	B183601	8.28	10.0	08/08/17
17H0196-09 [Trip Blank]	B183601	5.00	10.0	08/08/17

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183764	30.0	1.00	08/10/17
17H0196-02 [WS-AOC2-SO-2-2]	B183764	30.0	1.00	08/10/17
17H0196-03 [WS-AOC2-SO-3-1]	B183764	30.0	1.00	08/10/17
17H0196-04 [WS-AOC2-SO-3-2]	B183764	30.0	1.00	08/10/17
17H0196-05 [WS-AOC2-SO-1-1]	B183764	30.0	1.00	08/10/17
17H0196-05RE1 [WS-AOC2-SO-1-1]	B183764	30.0	1.00	08/10/17
17H0196-06 [WS-AOC2-SO-1-2]	B183764	30.0	1.00	08/10/17
17H0196-07 [WS-AOC2-SO-4-1]	B183764	30.0	1.00	08/10/17
17H0196-08 [WS-AOC2-SO-4-2]	B183764	30.0	1.00	08/10/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183601 - SW-846 5035										
Blank (B183601-BLK1)				Prepared & Analyzed: 08/08/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183601 - SW-846 5035										
Blank (B183601-BLK1)				Prepared & Analyzed: 08/08/17						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0484*		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: Toluene-d8	*0.0472*		mg/Kg wet	0.0500		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0444*		mg/Kg wet	0.0500		88.8	70-130			
LCS (B183601-BS1)				Prepared & Analyzed: 08/08/17						
Acetone	0.164	0.10	mg/Kg wet	0.200		81.9	70-130			
Acrylonitrile	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130			
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromodichloromethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
2-Butanone (MEK)	0.187	0.040	mg/Kg wet	0.200		93.4	70-130			
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Carbon Disulfide	0.225	0.0060	mg/Kg wet	0.200		113	70-130			
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Chlorodibromomethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0194	0.020	mg/Kg wet	0.0200		97.2	70-130			
Chloroform	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			
Chloromethane	0.0215	0.010	mg/Kg wet	0.0200		107	70-130			
2-Chlorotoluene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130			
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,4-Dichloro-2-butene	0.0187	0.0040	mg/Kg wet	0.0200		93.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0231	0.020	mg/Kg wet	0.0200		116	70-130			
1,1-Dichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2-Dichloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,1-Dichloroethylene	0.0205	0.0040	mg/Kg wet	0.0200		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183601 - SW-846 5035										
LCS (B183601-BS1)				Prepared & Analyzed: 08/08/17						
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130			
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.4	70-130			
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.196	0.020	mg/Kg wet	0.200		98.2	70-130			
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
p-Isopropyltoluene (p-Cymene)	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0197	0.0040	mg/Kg wet	0.0200		98.4	70-130			
Methylene Chloride	0.0223	0.020	mg/Kg wet	0.0200		112	70-130			
4-Methyl-2-pentanone (MIBK)	0.219	0.020	mg/Kg wet	0.200		110	70-130			
Naphthalene	0.0152	0.0040	mg/Kg wet	0.0200		75.8	70-130			
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Styrene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130			
Tetrahydrofuran	0.0213	0.010	mg/Kg wet	0.0200		107	70-130			
Toluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,3-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
1,1,1-Trichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2-Trichloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Trichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130			
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			
m+p Xylene	0.0424	0.0040	mg/Kg wet	0.0400		106	70-130			
o-Xylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0488*		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: Toluene-d8	*0.0471*		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/Kg wet	0.0500		99.5	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183764 - SW-846 3546										
Blank (B183764-BLK1)				Prepared: 08/10/17 Analyzed: 08/11/17						
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	*2.74*		mg/Kg wet	3.33		82.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: p-Terphenyl-d14	*2.59*		mg/Kg wet	3.33		77.7	30-130			
LCS (B183764-BS1)				Prepared: 08/10/17 Analyzed: 08/11/17						
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(g,h,i)perylene	0.817	0.17	mg/Kg wet	1.67		49.0	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Chrysene	0.966	0.17	mg/Kg wet	1.67		58.0	40-140			
Dibenz(a,h)anthracene	0.923	0.17	mg/Kg wet	1.67		55.4	40-140			
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Indeno(1,2,3-cd)pyrene	0.865	0.17	mg/Kg wet	1.67		51.9	40-140			
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Surrogate: Nitrobenzene-d5	*2.66*		mg/Kg wet	3.33		79.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/Kg wet	3.33		77.6	30-130			
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.33		75.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183764 - SW-846 3546											
LCS Dup (B183764-BSD1)				Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.9		40-140	5.41	30	
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	0.884	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9		40-140	3.78	30	
Benzo(a)anthracene	0.981	0.17	mg/Kg wet	1.67		58.8		40-140	5.17	30	
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		69.2		40-140	0.0866	30	
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	0.126	30	
Benzo(g,h,i)perylene	0.826	0.17	mg/Kg wet	1.67		49.6		40-140	1.10	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	4.24	30	
Chrysene	0.902	0.17	mg/Kg wet	1.67		54.1		40-140	6.85	30	
Dibenz(a,h)anthracene	0.914	0.17	mg/Kg wet	1.67		54.8		40-140	0.944	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.6		40-140	1.99	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.6		40-140	4.24	30	
Indeno(1,2,3-cd)pyrene	0.842	0.17	mg/Kg wet	1.67		50.5		40-140	2.70	30	
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140	0.0292	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	2.71	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.5		40-140	4.84	30	
Pyrene	0.998	0.17	mg/Kg wet	1.67		59.9		40-140	6.75	30	
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.2		30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130			
Surrogate: p-Terphenyl-d14	*2.29*		mg/Kg wet	3.33		68.6		30-130			
Matrix Spike (B183764-MS1)		**Source: 17H0196-03**		Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	0.975	0.18	mg/Kg dry	1.81	ND	53.9		40-140			
Acenaphthylene	0.962	0.18	mg/Kg dry	1.81	0.132	45.8		40-140			
Anthracene	1.09	0.18	mg/Kg dry	1.81	0.204	49.0		40-140			
Benzo(a)anthracene	1.41	0.18	mg/Kg dry	1.81	0.729	**37.6**	*	40-140			MS-09
Benzo(a)pyrene	1.66	0.18	mg/Kg dry	1.81	0.819	46.5		40-140			
Benzo(b)fluoranthene	1.90	0.18	mg/Kg dry	1.81	1.08	45.3		40-140			
Benzo(g,h,i)perylene	1.11	0.18	mg/Kg dry	1.81	0.491	**34.3**	*	40-140			MS-09
Benzo(k)fluoranthene	1.40	0.18	mg/Kg dry	1.81	0.343	58.4		40-140			
Chrysene	1.29	0.18	mg/Kg dry	1.81	0.633	**36.2**	*	40-140			MS-09
Dibenz(a,h)anthracene	0.864	0.18	mg/Kg dry	1.81	0.144	**39.8**	*	40-140			MS-22
Fluoranthene	2.25	0.18	mg/Kg dry	1.81	1.62	**34.8**	*	40-140			MS-09
Fluorene	0.996	0.18	mg/Kg dry	1.81	0.0604	51.7		40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.18	mg/Kg dry	1.81	0.534	43.7		40-140			
2-Methylnaphthalene	0.999	0.18	mg/Kg dry	1.81	ND	55.2		40-140			
Naphthalene	0.945	0.18	mg/Kg dry	1.81	ND	52.2		40-140			
Phenanthrene	1.62	0.18	mg/Kg dry	1.81	0.888	40.2		40-140			
Pyrene	2.10	0.18	mg/Kg dry	1.81	1.65	**24.8**	*	40-140			MS-09
Surrogate: Nitrobenzene-d5	*2.35*		mg/Kg dry	3.62		65.0		30-130			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/Kg dry	3.62		58.5		30-130			
Surrogate: p-Terphenyl-d14	*2.20*		mg/Kg dry	3.62		60.8		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 B183764 - SW-846 3546											
Matrix Spike Dup (B183764-MSD1)		**Source: 17H0196-03**		Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	0.970	0.18	mg/Kg dry	1.81	ND	53.6		40-140	0.595	30	
Acenaphthylene	0.961	0.18	mg/Kg dry	1.81	0.132	45.8		40-140	0.113	30	
Anthracene	1.09	0.18	mg/Kg dry	1.81	0.204	48.7		40-140	0.532	30	
Benzo(a)anthracene	1.35	0.18	mg/Kg dry	1.81	0.729	**34.6**	*	40-140	3.96	30	MS-09
Benzo(a)pyrene	1.64	0.18	mg/Kg dry	1.81	0.819	45.1		40-140	1.60	30	
Benzo(b)fluoranthene	1.69	0.18	mg/Kg dry	1.81	1.08	**33.7**	*	40-140	11.7	30	MS-22
Benzo(g,h,i)perylene	1.19	0.18	mg/Kg dry	1.81	0.491	**38.9**	*	40-140	7.15	30	MS-09
Benzo(k)fluoranthene	1.50	0.18	mg/Kg dry	1.81	0.343	64.1		40-140	7.13	30	
Chrysene	1.27	0.18	mg/Kg dry	1.81	0.633	**35.1**	*	40-140	1.44	30	MS-09
Dibenz(a,h)anthracene	0.974	0.18	mg/Kg dry	1.81	0.144	45.9		40-140	12.0	30	
Fluoranthene	2.09	0.18	mg/Kg dry	1.81	1.62	**25.6**	*	40-140	7.71	30	MS-09
Fluorene	1.00	0.18	mg/Kg dry	1.81	0.0604	52.2		40-140	0.869	30	
Indeno(1,2,3-cd)pyrene	1.43	0.18	mg/Kg dry	1.81	0.534	49.7		40-140	7.90	30	
2-Methylnaphthalene	1.06	0.18	mg/Kg dry	1.81	ND	58.8		40-140	6.35	30	
Naphthalene	1.00	0.18	mg/Kg dry	1.81	ND	55.4		40-140	5.87	30	
Phenanthrene	1.49	0.18	mg/Kg dry	1.81	0.888	**33.1**	*	40-140	8.26	30	MS-22
Pyrene	1.97	0.18	mg/Kg dry	1.81	1.65	**17.9**	*	40-140	6.17	30	MS-09
Surrogate: Nitrobenzene-d5	*2.54*		mg/Kg dry	3.62		70.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/Kg dry	3.62		59.6		30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg dry	3.62		64.3		30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183939 - SW-846 3540C										
Blank (B183939-BLK1)				Prepared: 08/12/17 Analyzed: 08/15/17						
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	*0.213*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.5	30-150			
LCS (B183939-BS1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		100	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.5	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.8	40-140			
Surrogate: Decachlorobiphenyl	*0.223*		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.4	30-150			
LCS Dup (B183939-BSD1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	19.2	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.4	40-140	10.7	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	19.5	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.6	40-140	16.0	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.157*		mg/Kg wet	0.200		78.5	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 B183939 - SW-846 3540C											
Matrix Spike (B183939-MS1)		**Source: 17H0196-03**		Prepared: 08/12/17 Analyzed: 08/16/17							
Aroclor-1016	0.25	0.11	mg/Kg dry	0.217	ND	117		40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.217	ND	99.9		40-140			
Aroclor-1260	0.34	0.11	mg/Kg dry	0.217	ND	**156**	*	40-140			MS-22
Aroclor-1260 [2C]	0.30	0.11	mg/Kg dry	0.217	ND	139		40-140			
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg dry	0.217		93.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg dry	0.217		88.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.217		93.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg dry	0.217		83.0		30-150			
Matrix Spike Dup (B183939-MSD1)		**Source: 17H0196-03**		Prepared: 08/12/17 Analyzed: 08/16/17							
Aroclor-1016	0.28	0.11	mg/Kg dry	0.217	ND	129		40-140	10.5	50	
Aroclor-1016 [2C]	0.28	0.11	mg/Kg dry	0.217	ND	127		40-140	23.9	50	
Aroclor-1260	0.28	0.11	mg/Kg dry	0.217	ND	130		40-140	18.2	50	
Aroclor-1260 [2C]	0.27	0.11	mg/Kg dry	0.217	ND	123		40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg dry	0.217		99.3		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.217		90.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg dry	0.217		99.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg dry	0.217		89.9		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 B183762 - SW-846 3546										
Blank (B183762-BLK1)				Prepared & Analyzed: 08/10/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.14*		mg/Kg wet	3.33		64.1	50-150			
LCS (B183762-BS1)				Prepared & Analyzed: 08/10/17						
CT ETPH	20.7	10	mg/Kg wet	33.3		62.1	60-120			
Surrogate: o-Terphenyl	*2.13*		mg/Kg wet	3.33		64.0	50-150			
LCS Dup (B183762-BSD1)				Prepared & Analyzed: 08/10/17						
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	4.31	30	
Surrogate: o-Terphenyl	*2.26*		mg/Kg wet	3.33		67.8	50-150			
Matrix Spike (B183762-MS1)	**Source: 17H0196-03**			Prepared: 08/10/17 Analyzed: 08/11/17						
CT ETPH	162	54	mg/Kg dry	36.2	140	61.0	50-150			
Surrogate: o-Terphenyl	*2.60*		mg/Kg dry	3.62		71.9	50-150			
Matrix Spike Dup (B183762-MSD1)	**Source: 17H0196-03**			Prepared: 08/10/17 Analyzed: 08/11/17						
CT ETPH	174	54	mg/Kg dry	36.2	140	92.6	50-150	6.80	30	
Surrogate: o-Terphenyl	*2.75*		mg/Kg dry	3.62		76.1	50-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183650 - % Solids										
Duplicate (B183650-DUP1)		**Source: 17H0196-03**		Prepared: 08/09/17 Analyzed: 08/10/17						
% Solids	91.7		% Wt		92.1			0.435	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.
E	Reported result is estimated. Value reported over verified calibration range.
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.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

con-test ANALYTICAL LABORATORY
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Email: info@contestlabs.com

17H0196

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC2-SO-2-1	8/3/16	9:10		X	S	U	X	X	X	X			
02	WS-AOC2-SO-2-2		9:11					X	X	X	X			
03	WS-AOC2-SO-3-1		9:35					X	X	X	X			
04	WS-AOC2-SO-3-2		9:36					X	X	X	X			
05	WS-AOC2-SO-1-1		10:35					X	X	X	X			
06	WS-AOC2-SO-1-2		10:36					X	X	X	X			
07	WS-AOC2-SO-4-1		10:55					X	X	X	X			
08	WS-AOC2-SO-4-2		10:56					X	X	X	X			
09	TRIP BLANK										X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC2-SO-3-1 (MS-MSD) only for PCB and PAH!
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:56
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature) 3.1°, 4.7	Date/Time:
[signature]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

8/3/17 1645

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17H0196

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB										# of Containers
10	WS-AOC2-SO-DUP-45	8/3/17			X	S	U	X										
11	WS-AOC2-SO-DUP-46	8/3/17			X	S	U	X										

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[signature]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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8/3/17 1645

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East Longmeadow, MA. 01028
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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By BLF Date 8/3/17 Time 1645

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°C, 4.7°C
By Blank # ___ Actual Temp - ___

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-	9	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	18	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/3/17 1645	
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: 17H0196

Laboratory Sample ID(s):

17H0196-01 thru 17H0196-11

Sample Date(s):

08/03/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

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

Printed Name: **Lisa A. Worthington** **Date:** **08/17/17**

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

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

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

August 25, 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: 17H0197

Enclosed are results of analyses for samples received by the laboratory on August 3, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0197

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-3	17H0197-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-4	17H0197-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-54	17H0197-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-55	17H0197-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-56	17H0197-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-57	17H0197-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-58	17H0197-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-59	17H0197-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-60	17H0197-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-61	17H0197-10	Product/Solid		SW-846 8082A	
WS-AOC7-AS-32	17H0197-11	Product/Solid		SW-846 8082A	
WS-AOC7-AS-33	17H0197-12	Product/Solid		SW-846 8082A	
WS-AOC7-AS-24	17H0197-13	Product/Solid		SW-846 8082A	
WS-AOC7-AS-23	17H0197-14	Product/Solid		SW-846 8082A	
WS-AOC7-AS-16	17H0197-15	Product/Solid		SW-846 8082A	
WS-AOC7-AS-29	17H0197-16	Product/Solid		SW-846 8082A	
WS-AOC7-AS-30	17H0197-17	Product/Solid		SW-846 8082A	
WS-AOC7-AS-27	17H0197-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-1	17H0197-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-2	17H0197-20	Product/Solid		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.

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-3 Sampled: 8/3/2017 08:40

Sample ID: 17H0197-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 17:20
Decachlorobiphenyl [2]	110	30-150		8/24/17 17:20
Tetrachloro-m-xylene [1]	107	30-150		8/24/17 17:20
Tetrachloro-m-xylene [2]	106	30-150		8/24/17 17:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-4 Sampled: 8/3/2017 08:45

Sample ID: 17H0197-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		8/24/17 17:38
Decachlorobiphenyl [2]	93.6	30-150		8/24/17 17:38
Tetrachloro-m-xylene [1]	103	30-150		8/24/17 17:38
Tetrachloro-m-xylene [2]	102	30-150		8/24/17 17:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-54 Sampled: 8/3/2017 08:50

Sample ID: 17H0197-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1260 [2]	3.2	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.9	30-150		8/24/17 17:56
Decachlorobiphenyl [2]	92.9	30-150		8/24/17 17:56
Tetrachloro-m-xylene [1]	106	30-150		8/24/17 17:56
Tetrachloro-m-xylene [2]	107	30-150		8/24/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-55 Sampled: 8/3/2017 08:55

Sample ID: 17H0197-04

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	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		8/24/17 18:15
Decachlorobiphenyl [2]	92.7	30-150		8/24/17 18:15
Tetrachloro-m-xylene [1]	112	30-150		8/24/17 18:15
Tetrachloro-m-xylene [2]	113	30-150		8/24/17 18:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-56 Sampled: 8/3/2017 09:00

Sample ID: 17H0197-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1254 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.7	30-150		8/24/17 18:33
Decachlorobiphenyl [2]	86.1	30-150		8/24/17 18:33
Tetrachloro-m-xylene [1]	108	30-150		8/24/17 18:33
Tetrachloro-m-xylene [2]	109	30-150		8/24/17 18:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-57 Sampled: 8/3/2017 09:05

Sample ID: 17H0197-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.8	30-150		8/24/17 18:51
Decachlorobiphenyl [2]	90.8	30-150		8/24/17 18:51
Tetrachloro-m-xylene [1]	113	30-150		8/24/17 18:51
Tetrachloro-m-xylene [2]	114	30-150		8/24/17 18:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-58 Sampled: 8/3/2017 09:10

Sample ID: 17H0197-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		8/24/17 19:10
Decachlorobiphenyl [2]	85.6	30-150		8/24/17 19:10
Tetrachloro-m-xylene [1]	108	30-150		8/24/17 19:10
Tetrachloro-m-xylene [2]	107	30-150		8/24/17 19:10

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-59 Sampled: 8/3/2017 09:15

Sample ID: 17H0197-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.8	30-150		8/24/17 19:28
Decachlorobiphenyl [2]	78.1	30-150		8/24/17 19:28
Tetrachloro-m-xylene [1]	109	30-150		8/24/17 19:28
Tetrachloro-m-xylene [2]	110	30-150		8/24/17 19:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-60 Sampled: 8/3/2017 09:25

Sample ID: 17H0197-09

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	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1221 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1232 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1242 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1248 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1254 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1260 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1262 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1268 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.9	30-150		8/24/17 19:46
Decachlorobiphenyl [2]	91.7	30-150		8/24/17 19:46
Tetrachloro-m-xylene [1]	117	30-150		8/24/17 19:46
Tetrachloro-m-xylene [2]	118	30-150		8/24/17 19:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-61 Sampled: 8/3/2017 09:30

Sample ID: 17H0197-10

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	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 20:54
Decachlorobiphenyl [2]	104	30-150		8/24/17 20:54
Tetrachloro-m-xylene [1]	118	30-150		8/24/17 20:54
Tetrachloro-m-xylene [2]	119	30-150		8/24/17 20:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-32 Sampled: 8/3/2017 14:33

Sample ID: 17H0197-11

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	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1260 [1]	0.48	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		8/24/17 21:12
Decachlorobiphenyl [2]	68.8	30-150		8/24/17 21:12
Tetrachloro-m-xylene [1]	93.6	30-150		8/24/17 21:12
Tetrachloro-m-xylene [2]	82.3	30-150		8/24/17 21:12

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-33 Sampled: 8/3/2017 14:34

Sample ID: 17H0197-12

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	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1260 [1]	0.52	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.2	30-150		8/24/17 21:31
Decachlorobiphenyl [2]	65.7	30-150		8/24/17 21:31
Tetrachloro-m-xylene [1]	86.1	30-150		8/24/17 21:31
Tetrachloro-m-xylene [2]	73.0	30-150		8/24/17 21:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-24 Sampled: 8/3/2017 14:32

Sample ID: 17H0197-13

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	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.9	30-150		8/24/17 21:49
Decachlorobiphenyl [2]	87.1	30-150		8/24/17 21:49
Tetrachloro-m-xylene [1]	91.3	30-150		8/24/17 21:49
Tetrachloro-m-xylene [2]	82.4	30-150		8/24/17 21:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-23 Sampled: 8/3/2017 14:30

Sample ID: 17H0197-14

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	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		8/24/17 22:07
Decachlorobiphenyl [2]	91.0	30-150		8/24/17 22:07
Tetrachloro-m-xylene [1]	97.4	30-150		8/24/17 22:07
Tetrachloro-m-xylene [2]	86.1	30-150		8/24/17 22:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-16 Sampled: 8/3/2017 14:00

Sample ID: 17H0197-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1260 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/24/17 22:25
Decachlorobiphenyl [2]	103	30-150		8/24/17 22:25
Tetrachloro-m-xylene [1]	112	30-150		8/24/17 22:25
Tetrachloro-m-xylene [2]	115	30-150		8/24/17 22:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-29 Sampled: 8/3/2017 13:56

Sample ID: 17H0197-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		8/24/17 22:44
Decachlorobiphenyl [2]	81.4	30-150		8/24/17 22:44
Tetrachloro-m-xylene [1]	78.4	30-150		8/24/17 22:44
Tetrachloro-m-xylene [2]	68.3	30-150		8/24/17 22:44

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-30 Sampled: 8/3/2017 13:58

Sample ID: 17H0197-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.0	30-150		8/24/17 23:02
Decachlorobiphenyl [2]	82.2	30-150		8/24/17 23:02
Tetrachloro-m-xylene [1]	81.6	30-150		8/24/17 23:02
Tetrachloro-m-xylene [2]	67.0	30-150		8/24/17 23:02

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-27 Sampled: 8/3/2017 13:47

Sample ID: 17H0197-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/24/17 23:20
Decachlorobiphenyl [2]	95.6	30-150		8/24/17 23:20
Tetrachloro-m-xylene [1]	97.4	30-150		8/24/17 23:20
Tetrachloro-m-xylene [2]	86.4	30-150		8/24/17 23:20

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-1 Sampled: 8/3/2017 08:30

Sample ID: 17H0197-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/24/17 23:38
Decachlorobiphenyl [2]	108	30-150		8/24/17 23:38
Tetrachloro-m-xylene [1]	119	30-150		8/24/17 23:38
Tetrachloro-m-xylene [2]	119	30-150		8/24/17 23:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-2 Sampled: 8/3/2017 08:35

Sample ID: 17H0197-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/24/17 23:57
Decachlorobiphenyl [2]	84.5	30-150		8/24/17 23:57
Tetrachloro-m-xylene [1]	98.5	30-150		8/24/17 23:57
Tetrachloro-m-xylene [2]	99.2	30-150		8/24/17 23:57

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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
17H0197-01 [WS-AOC-12E-AS-3]	B183926	2.09	10.0	08/11/17
17H0197-02 [WS-AOC-12E-AS-4]	B183926	2.01	10.0	08/11/17
17H0197-03 [WS-AOC-12E-AS-54]	B183926	2.15	10.0	08/11/17
17H0197-04 [WS-AOC-12E-AS-55]	B183926	2.17	10.0	08/11/17
17H0197-05 [WS-AOC-12E-AS-56]	B183926	2.10	10.0	08/11/17
17H0197-06 [WS-AOC-12E-AS-57]	B183926	2.05	10.0	08/11/17
17H0197-07 [WS-AOC-12E-AS-58]	B183926	2.17	10.0	08/11/17
17H0197-08 [WS-AOC-12E-AS-59]	B183926	2.00	10.0	08/11/17
17H0197-09 [WS-AOC-12E-AS-60]	B183926	2.23	10.0	08/11/17
17H0197-10 [WS-AOC-12E-AS-61]	B183926	2.09	10.0	08/11/17
17H0197-11 [WS-AOC7-AS-32]	B183926	2.08	10.0	08/11/17
17H0197-12 [WS-AOC7-AS-33]	B183926	2.12	10.0	08/11/17
17H0197-13 [WS-AOC7-AS-24]	B183926	2.05	10.0	08/11/17
17H0197-14 [WS-AOC7-AS-23]	B183926	2.02	10.0	08/11/17
17H0197-15 [WS-AOC7-AS-16]	B183926	2.16	10.0	08/11/17
17H0197-16 [WS-AOC7-AS-29]	B183926	2.27	10.0	08/11/17
17H0197-17 [WS-AOC7-AS-30]	B183926	2.16	10.0	08/11/17
17H0197-18 [WS-AOC7-AS-27]	B183926	2.26	10.0	08/11/17
17H0197-19 [WS-AOC-12E-AS-1]	B183926	2.02	10.0	08/11/17
17H0197-20 [WS-AOC-12E-AS-2]	B183926	2.17	10.0	08/11/17

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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 B183926 - SW-846 3540C										
Blank (B183926-BLK1)				Prepared: 08/11/17 Analyzed: 08/24/17						
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	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.979*		mg/Kg	1.00		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.815*		mg/Kg	1.00		81.5	30-150			
LCS (B183926-BS1)				Prepared: 08/11/17 Analyzed: 08/24/17						
Aroclor-1016	0.82	0.10	mg/Kg	1.00		81.6	40-140			
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		80.3	40-140			
Aroclor-1260	0.76	0.10	mg/Kg	1.00		76.2	40-140			
Aroclor-1260 [2C]	0.74	0.10	mg/Kg	1.00		73.5	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.738*		mg/Kg	1.00		73.8	30-150			
LCS Dup (B183926-BSD1)				Prepared: 08/11/17 Analyzed: 08/24/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.6	40-140	2.48	30	
Aroclor-1016 [2C]	0.81	0.10	mg/Kg	1.00		80.7	40-140	0.504	30	
Aroclor-1260	0.75	0.10	mg/Kg	1.00		75.4	40-140	1.04	30	
Aroclor-1260 [2C]	0.74	0.10	mg/Kg	1.00		73.6	40-140	0.0700	30	
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.842*		mg/Kg	1.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.761*		mg/Kg	1.00		76.1	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
Batch B183926 - SW-846 3540C										
Matrix Spike (B183926-MS1)		**Source: 17H0197-01**		Prepared: 08/11/17 Analyzed: 08/25/17						
Aroclor-1016	1.1	0.94	mg/Kg	0.939	ND	122	40-140			
Aroclor-1016 [2C]	1.2	0.94	mg/Kg	0.939	ND	125	40-140			
Aroclor-1260	0.92	0.94	mg/Kg	0.939	ND	98.5	40-140			
Aroclor-1260 [2C]	1.0	0.94	mg/Kg	0.939	ND	106	40-140			
Surrogate: Decachlorobiphenyl	*0.922*		mg/Kg	0.939		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	0.939		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	0.939		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	0.939		113	30-150			
Matrix Spike Dup (B183926-MSD1)		**Source: 17H0197-01**		Prepared: 08/11/17 Analyzed: 08/25/17						
Aroclor-1016	1.1	0.96	mg/Kg	0.962	ND	114	40-140	4.29	50	
Aroclor-1016 [2C]	1.2	0.96	mg/Kg	0.962	ND	124	40-140	1.78	50	
Aroclor-1260	0.90	0.96	mg/Kg	0.962	ND	94.1	40-140	2.19	50	
Aroclor-1260 [2C]	1.0	0.96	mg/Kg	0.962	ND	107	40-140	3.08	50	
Surrogate: Decachlorobiphenyl	*0.871*		mg/Kg	0.962		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.849*		mg/Kg	0.962		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	0.962		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.962		106	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-54

Lab Sample ID: 17H0197-03

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.000	0.000	2.9	
	2	0.000	0.000	0.000	3.2	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-AS-32

Lab Sample ID: 17H0197-11

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.42	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-AS-33

Lab Sample ID: 17H0197-12

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.45	14.4

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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.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com

17H0197

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-12E-AS-3	8/3/17	0840		X	O	U	X			
02	WS-AOC 12E-AS-4		0845								
03	WS-AOC 12E-AS-54		0850								
04	WS-AOC-12E-AS-55		0855								
05	WS-AOC-12E-AS-56		0900								
06	WS-AOC-12E-AS-57		0905								
07	WS-AOC-12E-AS-58		0910								
08	WS-AOC-12E-AS-59		0915								
09	WS-AOC 12E-AS-60		0925								
10	WS-AOC 12E-AS-61		0930								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

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

Relinquished by: (signature)	Date/Time:
Abhishek Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible] 8-3-17	14:58
Relinquished by: (signature)	Date/Time:
[illegible] 8-3-17	4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com

17H0197

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC7-AS-32	8/3/17	1433		X	O	U	X			
12	WS-AOC-7-AS-33		1434		↓	↓	↓	↓			
13	WS-AOC7-AS-24		1432		↓	↓	↓	↓			
14	WS-AOC7-AS-23		1430		↓	↓	↓	↓			
15	WS-AOC-7-AS-16		1400		↓	↓	↓	↓			
16	WS-AOC-7-AS-29		1356		↓	↓	↓	↓			
17	WS-AOC-7-AS-30		1358		↓	↓	↓	↓			
18	WS-AOC-7-AS-27		1347		↓	↓	↓	↓			
19	WS-AOC12E-AS-1		0830		↓	↓	↓	↓			
20	WS-AOC12E-AS-2		0835		↓	↓	↓	↓			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
Akanksha Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature)	Date/Time:
[signature]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By BLF Date 8/3/17 Time 1645

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°C, 4.7°C
By Blank # ___ Actual Temp - ___

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

Vials	#	Containers:	#		#		
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	20
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: 17H0197

Laboratory Sample ID(s):

17H0197-01 thru 17H0197-20

Sample Date(s):

08/03/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/25/17**

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

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

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

August 17, 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: 17H0199

Enclosed are results of analyses for samples received by the laboratory on August 3, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0199

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-AOC13-AS-26	17H0199-01	Product/Solid		SW-846 8082A	
WS-AOC7-AS-1	17H0199-02	Product/Solid		SW-846 8082A	
WS-AOC13-AS-23	17H0199-03	Product/Solid		SW-846 8082A	
WS-AOC13-AS-21	17H0199-04	Product/Solid		SW-846 8082A	
WS-AOC13-AS-17	17H0199-05	Product/Solid		SW-846 8082A	
WS-AOC13-AS-15	17H0199-06	Product/Solid		SW-846 8082A	
WS-AOC13-AS-16	17H0199-07	Product/Solid		SW-846 8082A	
WS-AOC13-AS-22	17H0199-08	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-64	17H0199-09	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-63	17H0199-10	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-62	17H0199-11	Product/Solid		SW-846 8082A	
WS-AOC7-AS-DUP7	17H0199-12	Product/Solid		SW-846 8082A	
WS-AOC13-AS-DUP6	17H0199-13	Product/Solid		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.

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-26 Sampled: 8/3/2017 10:50

Sample ID: 17H0199-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:06
Decachlorobiphenyl [2]	101	30-150		8/15/17 22:06
Tetrachloro-m-xylene [1]	97.1	30-150		8/15/17 22:06
Tetrachloro-m-xylene [2]	103	30-150		8/15/17 22:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-1 Sampled: 8/3/2017 11:43

Sample ID: 17H0199-02

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/15/17 22:24
Decachlorobiphenyl [2]	92.6	30-150		8/15/17 22:24
Tetrachloro-m-xylene [1]	91.7	30-150		8/15/17 22:24
Tetrachloro-m-xylene [2]	98.3	30-150		8/15/17 22:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-23 Sampled: 8/3/2017 11:37

Sample ID: 17H0199-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:42
Decachlorobiphenyl [2]	99.4	30-150		8/15/17 22:42
Tetrachloro-m-xylene [1]	101	30-150		8/15/17 22:42
Tetrachloro-m-xylene [2]	106	30-150		8/15/17 22:42

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-21 Sampled: 8/3/2017 11:25

Sample ID: 17H0199-04

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	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	118	30-150		8/15/17 23:00
Decachlorobiphenyl [2]	106	30-150		8/15/17 23:00
Tetrachloro-m-xylene [1]	110	30-150		8/15/17 23:00
Tetrachloro-m-xylene [2]	115	30-150		8/15/17 23:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-17 Sampled: 8/3/2017 10:40

Sample ID: 17H0199-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/17/17 1:59
Decachlorobiphenyl [2]	87.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [1]	82.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [2]	95.7	30-150		8/17/17 1:59

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-15 Sampled: 8/3/2017 10:30

Sample ID: 17H0199-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		8/17/17 2:16
Decachlorobiphenyl [2]	90.9	30-150		8/17/17 2:16
Tetrachloro-m-xylene [1]	90.6	30-150		8/17/17 2:16
Tetrachloro-m-xylene [2]	104	30-150		8/17/17 2:16

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-16 Sampled: 8/3/2017 10:35

Sample ID: 17H0199-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		8/17/17 2:34
Decachlorobiphenyl [2]	92.5	30-150		8/17/17 2:34
Tetrachloro-m-xylene [1]	94.6	30-150		8/17/17 2:34
Tetrachloro-m-xylene [2]	106	30-150		8/17/17 2:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-22 Sampled: 8/3/2017 11:36

Sample ID: 17H0199-08

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		8/17/17 2:51
Decachlorobiphenyl [2]	90.2	30-150		8/17/17 2:51
Tetrachloro-m-xylene [1]	88.7	30-150		8/17/17 2:51
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 2:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-64 Sampled: 8/3/2017 09:45

Sample ID: 17H0199-09

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		8/17/17 3:08
Decachlorobiphenyl [2]	62.2	30-150		8/17/17 3:08
Tetrachloro-m-xylene [1]	63.7	30-150		8/17/17 3:08
Tetrachloro-m-xylene [2]	71.5	30-150		8/17/17 3:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-63 Sampled: 8/3/2017 09:40

Sample ID: 17H0199-10

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	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/17/17 3:25
Decachlorobiphenyl [2]	84.3	30-150		8/17/17 3:25
Tetrachloro-m-xylene [1]	81.9	30-150		8/17/17 3:25
Tetrachloro-m-xylene [2]	95.0	30-150		8/17/17 3:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-62 Sampled: 8/3/2017 09:35

Sample ID: 17H0199-11

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		8/17/17 3:42
Decachlorobiphenyl [2]	85.3	30-150		8/17/17 3:42
Tetrachloro-m-xylene [1]	88.1	30-150		8/17/17 3:42
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 3:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-DUP7 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-12

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		8/17/17 4:00
Decachlorobiphenyl [2]	59.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [1]	63.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [2]	71.0	30-150		8/17/17 4:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-DUP6 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-13

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	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		8/17/17 4:17
Decachlorobiphenyl [2]	85.2	30-150		8/17/17 4:17
Tetrachloro-m-xylene [1]	86.0	30-150		8/17/17 4:17
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 4:17

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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
17H0199-01 [WS-AOC13-AS-26]	B183940	2.04	10.0	08/12/17
17H0199-02 [WS-AOC7-AS-1]	B183940	2.02	10.0	08/12/17
17H0199-03 [WS-AOC13-AS-23]	B183940	2.03	10.0	08/12/17
17H0199-04 [WS-AOC13-AS-21]	B183940	2.04	10.0	08/12/17
17H0199-05 [WS-AOC13-AS-17]	B183940	2.03	10.0	08/12/17
17H0199-06 [WS-AOC13-AS-15]	B183940	2.02	10.0	08/12/17
17H0199-07 [WS-AOC13-AS-16]	B183940	2.01	10.0	08/12/17
17H0199-08 [WS-AOC13-AS-22]	B183940	2.03	10.0	08/12/17
17H0199-09 [WS-AOC12E-AS-64]	B183940	2.02	10.0	08/12/17
17H0199-10 [WS-AOC12E-AS-63]	B183940	2.04	10.0	08/12/17
17H0199-11 [WS-AOC12E-AS-62]	B183940	2.03	10.0	08/12/17
17H0199-12 [WS-AOC7-AS-DUP7]	B183940	2.02	10.0	08/12/17
17H0199-13 [WS-AOC13-AS-DUP6]	B183940	2.02	10.0	08/12/17

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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 B183940 - SW-846 3540C										
Blank (B183940-BLK1)				Prepared: 08/12/17 Analyzed: 08/15/17						
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	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.948*		mg/Kg	1.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.918*		mg/Kg	1.00		91.8	30-150			
LCS (B183940-BS1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.8	40-140			
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.3	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.7	40-140			
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.930*		mg/Kg	1.00		93.0	30-150			
LCS Dup (B183940-BSD1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		92.2	40-140	1.50	30	
Aroclor-1016 [2C]	0.93	0.10	mg/Kg	1.00		93.1	40-140	2.97	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		89.5	40-140	1.32	30	
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140	0.0170	30	
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.943*		mg/Kg	1.00		94.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183940 - SW-846 3540C										
Matrix Spike (B183940-MS1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.2	0.99	mg/Kg	0.990	ND	125	40-140			
Aroclor-1016 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Aroclor-1260	1.1	0.99	mg/Kg	0.990	ND	113	40-140			
Aroclor-1260 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Surrogate: Decachlorobiphenyl	*0.892*		mg/Kg	0.990		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.879*		mg/Kg	0.990		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.692*		mg/Kg	0.990		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.990		103	30-150			
Matrix Spike Dup (B183940-MSD1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.0	0.98	mg/Kg	0.976	ND	105	40-140	19.0	50	
Aroclor-1016 [2C]	1.1	0.98	mg/Kg	0.976	ND	112	40-140	6.14	50	
Aroclor-1260	1.0	0.98	mg/Kg	0.976	ND	107	40-140	7.16	50	
Aroclor-1260 [2C]	1.1	0.98	mg/Kg	0.976	ND	111	40-140	7.34	50	
Surrogate: Decachlorobiphenyl	*0.822*		mg/Kg	0.976		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.814*		mg/Kg	0.976		83.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.799*		mg/Kg	0.976		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.956*		mg/Kg	0.976		98.0	30-150			

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com

17H0199

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

(Soxhlet) PCB

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-AS-26	8/3/17	10:50		X	O	U			
02	WS-AOC7-AS-1		11:43							
03	WS-AOC13-AS-23		11:37							
04	WS-AOC13-AS-21		11:25							
05	WS-AOC13-AS-17		10:40							
06	WS-AOC13-AS-15		10:30							
07	WS-AOC13-AS-16		10:35							
08	WS-AOC13-AS-22		11:36							
09	WS-AOC12E-AS-64		9:45							
10	WS-AOC12E-AS-63		9:40							

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC13-AS-17 (MS-MSD)
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:
Hankesh Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT: RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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17H0199

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

(Soxhlet) PCB

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-AS-02	8/3/17	9:35		X	D	U			
12	WS-AOC7-AS-DUP7	↓			↓	↓	↓			
13	WS-AOC13-AS-DUP6	↓			↓	↓	↓			

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

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

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

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

Relinquished by: (signature)	Date/Time:
Akanksha Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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F: 413-525-6405
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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 BLF Date 8/3/17 Time 1645

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 3.1°C, 4.7°C

Were samples within Temperature? 2-6°C T By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	15
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: 17H0199

Laboratory Sample ID(s):

17H0199-01 thru 17H0199-13

Sample Date(s):

08/03/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/17/17**

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

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

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

August 21, 2017

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

Project Location: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0394

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

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0394

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-2	17H0394-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-3	17H0394-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-4	17H0394-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-CO-3	17H0394-04	Concrete		SW-846 8082A	
Equipment blank - 32	17H0394-05	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment blank - 33	17H0394-06	Equipment Blank Water		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

17H0394-01[WS-AOC14-SE-2], 17H0394-03[WS-AOC14-SE-4]

SW-846 8082A

Qualifications:

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-1260 [2C]

17H0394-05[Equipment blank - 32], 17H0394-06[Equipment blank - 33], B183981-BLK1, B183981-BS1, B183981-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

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2 | Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Acenaphthylene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Anthracene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(a)anthracene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(a)pyrene	2.0	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(b)fluoranthene	2.6	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(g,h,i)perylene	1.2	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(k)fluoranthene	0.82	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Chrysene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Dibenz(a,h)anthracene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Fluoranthene	2.8	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Fluorene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Indeno(1,2,3-cd)pyrene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
2-Methylnaphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Naphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Phenanthrene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Pyrene	4.1	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	94.8	30-130		8/16/17 20:07
2-Fluorobiphenyl	72.2	30-130		8/16/17 20:07
p-Terphenyl-d14	85.8	30-130		8/16/17 20:07

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2 | Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1248 [2]	0.96	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1254 [2]	0.97	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1260 [2]	0.64	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		8/16/17 19:27
Decachlorobiphenyl [2]	91.1	30-150		8/16/17 19:27
Tetrachloro-m-xylene [1]	92.0	30-150		8/16/17 19:27
Tetrachloro-m-xylene [2]	99.1	30-150		8/16/17 19:27

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-2
Sampled: 8/8/2017 12:00
Sample ID: 17H0394-01
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3000	1100	mg/Kg dry	25		CTDEP ETPH	8/14/17	8/17/17 9:45	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/17/17 9:45

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Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2
Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	23.4		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-3 | Sampled: 8/8/2017 10:00

Sample ID: 17H0394-02

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	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Acenaphthylene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Anthracene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(a)anthracene	2.1	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(a)pyrene	2.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(b)fluoranthene	3.8	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(g,h,i)perylene	1.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(k)fluoranthene	1.3	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Chrysene	2.2	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Dibenz(a,h)anthracene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Fluoranthene	3.6	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Fluorene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Indeno(1,2,3-cd)pyrene	1.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
2-Methylnaphthalene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Naphthalene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Phenanthrene	1.8	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Pyrene	5.0	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.8	30-130		8/16/17 20:34
2-Fluorobiphenyl	72.3	30-130		8/16/17 20:34
p-Terphenyl-d14	85.6	30-130		8/16/17 20:34

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-3 | Sampled: 8/8/2017 10:00

Sample ID: 17H0394-02

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	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1248 [2]	1.9	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1254 [2]	1.7	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1260 [2]	0.80	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		8/16/17 19:40
Decachlorobiphenyl [2]	94.6	30-150		8/16/17 19:40
Tetrachloro-m-xylene [1]	91.0	30-150		8/16/17 19:40
Tetrachloro-m-xylene [2]	96.4	30-150		8/16/17 19:40

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-3
Sampled: 8/8/2017 10:00
Sample ID: 17H0394-02
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3200	380	mg/Kg dry	10		CTDEP ETPH	8/14/17	8/17/17 8:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.5	50-150		8/17/17 8:52

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

Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-3
Sampled: 8/8/2017 10:00

Sample ID: 17H0394-02

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	26.0		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-4 | Sampled: 8/8/2017 14:00

Sample ID: 17H0394-03

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	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Acenaphthylene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Anthracene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(a)anthracene	1.4	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(a)pyrene	1.8	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(b)fluoranthene	2.4	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(g,h,i)perylene	1.2	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(k)fluoranthene	0.81	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Chrysene	1.3	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Dibenz(a,h)anthracene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Fluoranthene	2.1	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Fluorene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Indeno(1,2,3-cd)pyrene	1.2	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
2-Methylnaphthalene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Naphthalene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Phenanthrene	1.0	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Pyrene	3.5	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.5	30-130		8/16/17 21:00
2-Fluorobiphenyl	65.7	30-130		8/16/17 21:00
p-Terphenyl-d14	83.5	30-130		8/16/17 21:00

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Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-4
Sampled: 8/8/2017 14:00
Sample ID: 17H0394-03
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	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1221 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1232 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1242 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1248 [2]	0.93	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1254 [2]	1.0	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1260 [2]	0.70	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1262 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1268 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		8/16/17 19:53
Decachlorobiphenyl [2]	84.2	30-150		8/16/17 19:53
Tetrachloro-m-xylene [1]	84.2	30-150		8/16/17 19:53
Tetrachloro-m-xylene [2]	91.3	30-150		8/16/17 19:53

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-4
Sampled: 8/8/2017 14:00
Sample ID: 17H0394-03
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	5700	2000	mg/Kg dry	50		CTDEP ETPH	8/14/17	8/17/17 10:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/17/17 10:14

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

Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-4
Sampled: 8/8/2017 14:00

Sample ID: 17H0394-03

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	25.1		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-CO-3
Sampled: 8/8/2017 10:15
Sample ID: 17H0394-04
Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/17/17 13:12
Decachlorobiphenyl [2]	106	30-150		8/17/17 13:12
Tetrachloro-m-xylene [1]	93.8	30-150		8/17/17 13:12
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 13:12

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 32 | Sampled: 8/8/2017 14:30

Sample ID: 17H0394-05

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		8/17/17 14:35
2-Fluorobiphenyl	84.2	30-130		8/17/17 14:35
p-Terphenyl-d14	74.8	30-130		8/17/17 14:35

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 32 | Sampled: 8/8/2017 14:30

Sample ID: 17H0394-05

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		8/18/17 16:18
Decachlorobiphenyl [2]	85.9	30-150		8/18/17 16:18
Tetrachloro-m-xylene [1]	81.6	30-150		8/18/17 16:18
Tetrachloro-m-xylene [2]	87.5	30-150		8/18/17 16:18

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Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: Equipment blank - 32
Sampled: 8/8/2017 14:30
Sample ID: 17H0394-05
Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	8/15/17	8/17/17 14:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.3	50-150		8/17/17 14:07

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Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 33 | Sampled: 8/8/2017 14:45

Sample ID: 17H0394-06

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		8/18/17 16:31
Decachlorobiphenyl [2]	92.1	30-150		8/18/17 16:31
Tetrachloro-m-xylene [1]	81.2	30-150		8/18/17 16:31
Tetrachloro-m-xylene [2]	88.5	30-150		8/18/17 16:31

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-01 [WS-AOC14-SE-2]	B184016	30.0	1.00	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184016	30.0	1.00	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184016	30.0	1.00	08/14/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B184126	1000	1.00	08/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0394-01 [WS-AOC14-SE-2]	B183777	08/10/17
17H0394-02 [WS-AOC14-SE-3]	B183777	08/10/17
17H0394-03 [WS-AOC14-SE-4]	B183777	08/10/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-04 [WS-AOC14-CO-3]	B184156	2.09	10.0	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-01 [WS-AOC14-SE-2]	B184053	10.2	10.0	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184053	10.0	10.0	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184053	10.0	10.0	08/14/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B183981	1000	10.0	08/14/17
17H0394-06 [Equipment blank - 33]	B183981	1000	10.0	08/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-01 [WS-AOC14-SE-2]	B184017	30.0	1.00	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184017	30.0	1.00	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184017	30.0	1.00	08/14/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B184392	1000	1.00	08/14/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184017 - SW-846 3546										
Blank (B184017-BLK1)				Prepared: 08/14/17 Analyzed: 08/15/17						
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	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.40*		mg/Kg wet	3.33		72.1	30-130			
Surrogate: p-Terphenyl-d14	*3.08*		mg/Kg wet	3.33		92.5	30-130			
LCS (B184017-BS1)				Prepared: 08/14/17 Analyzed: 08/15/17						
Acenaphthene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140			
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Dibenz(a,h)anthracene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Surrogate: Nitrobenzene-d5	*3.01*		mg/Kg wet	3.33		90.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.86*		mg/Kg wet	3.33		85.8	30-130			
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg wet	3.33		88.1	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 B184017 - SW-846 3546										
LCS Dup (B184017-BSD1)				Prepared: 08/14/17 Analyzed: 08/15/17						
Acenaphthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	3.06	30	
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	4.68	30	
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	3.99	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	4.35	30	
Benzo(a)pyrene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	0.389	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	2.61	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	18.0	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	1.24	30	
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	2.28	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	12.9	30	
Fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	2.46	30	
Fluorene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	4.59	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140	15.5	30	
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	4.83	30	
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	2.69	30	
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	4.18	30	
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	11.8	30	
Surrogate: Nitrobenzene-d5	*3.09*		mg/Kg wet	3.33		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*3.07*		mg/Kg wet	3.33		92.0	30-130			
Surrogate: p-Terphenyl-d14	*3.33*		mg/Kg wet	3.33		99.9	30-130			
Batch B184392 - SW-846 3510C										
Blank (B184392-BLK1)				Prepared: 08/14/17 Analyzed: 08/17/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*75.9*		µg/L	100		75.9	30-130			
Surrogate: 2-Fluorobiphenyl	*73.4*		µg/L	100		73.4	30-130			
Surrogate: p-Terphenyl-d14	*67.6*		µg/L	100		67.6	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184392 - SW-846 3510C										
LCS (B184392-BS1)				Prepared: 08/14/17 Analyzed: 08/17/17						
Acenaphthene (SIM)	43.0	7.5	µg/L	50.0		85.9	40-140			
Acenaphthylene (SIM)	42.0	7.5	µg/L	50.0		84.0	40-140			
Anthracene (SIM)	45.6	5.0	µg/L	50.0		91.3	40-140			
Benzo(a)anthracene (SIM)	44.2	1.2	µg/L	50.0		88.4	40-140			
Benzo(a)pyrene (SIM)	47.4	2.5	µg/L	50.0		94.8	40-140			
Benzo(b)fluoranthene (SIM)	47.5	1.2	µg/L	50.0		95.0	40-140			
Benzo(g,h,i)perylene (SIM)	45.4	12	µg/L	50.0		90.8	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Chrysene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.3	12	µg/L	50.0		90.6	40-140			
Fluorene (SIM)	44.0	25	µg/L	50.0		88.1	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	45.2	5.0	µg/L	50.0		90.4	40-140			
2-Methylnaphthalene (SIM)	40.9	25	µg/L	50.0		81.8	40-140			
Naphthalene (SIM)	39.6	25	µg/L	50.0		79.2	40-140			
Phenanthrene (SIM)	44.8	1.2	µg/L	50.0		89.6	40-140			
Pyrene (SIM)	45.1	25	µg/L	50.0		90.2	40-140			
Surrogate: Nitrobenzene-d5	*90.8*		µg/L	100		90.8	30-130			
Surrogate: 2-Fluorobiphenyl	*98.4*		µg/L	100		98.4	30-130			
Surrogate: p-Terphenyl-d14	*85.4*		µg/L	100		85.4	30-130			
LCS Dup (B184392-BSD1)				Prepared: 08/14/17 Analyzed: 08/17/17						
Acenaphthene (SIM)	46.2	7.5	µg/L	50.0		92.4	40-140	7.29	20	
Acenaphthylene (SIM)	45.3	7.5	µg/L	50.0		90.6	40-140	7.45	20	
Anthracene (SIM)	48.8	5.0	µg/L	50.0		97.6	40-140	6.72	20	
Benzo(a)anthracene (SIM)	47.6	1.2	µg/L	50.0		95.2	40-140	7.35	20	
Benzo(a)pyrene (SIM)	51.8	2.5	µg/L	50.0		104	40-140	8.97	20	
Benzo(b)fluoranthene (SIM)	51.6	1.2	µg/L	50.0		103	40-140	8.23	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.3	40-140	9.00	20	
Benzo(k)fluoranthene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.41	20	
Chrysene (SIM)	47.8	5.0	µg/L	50.0		95.7	40-140	7.31	20	
Dibenz(a,h)anthracene (SIM)	49.8	5.0	µg/L	50.0		99.6	40-140	9.02	20	
Fluoranthene (SIM)	48.4	12	µg/L	50.0		96.9	40-140	6.78	20	
Fluorene (SIM)	47.2	25	µg/L	50.0		94.4	40-140	6.96	20	
Indeno(1,2,3-cd)pyrene (SIM)	49.5	5.0	µg/L	50.0		99.0	40-140	9.03	20	‡
2-Methylnaphthalene (SIM)	43.8	25	µg/L	50.0		87.6	40-140	6.90	20	
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.4	40-140	6.36	20	
Phenanthrene (SIM)	48.1	1.2	µg/L	50.0		96.2	40-140	7.16	20	
Pyrene (SIM)	48.6	25	µg/L	50.0		97.2	40-140	7.58	20	
Surrogate: Nitrobenzene-d5	*95.8*		µg/L	100		95.8	30-130			
Surrogate: 2-Fluorobiphenyl	*108*		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	*88.5*		µg/L	100		88.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B183981 - SW-846 3510C											
Blank (B183981-BLK1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	ND	0.040	µg/L								
Aroclor-1016 [2C]	ND	0.040	µg/L								
Aroclor-1221	ND	0.040	µg/L								
Aroclor-1221 [2C]	ND	0.040	µg/L								
Aroclor-1232	ND	0.040	µg/L								
Aroclor-1232 [2C]	ND	0.040	µg/L								
Aroclor-1242	ND	0.040	µg/L								
Aroclor-1242 [2C]	ND	0.040	µg/L								
Aroclor-1248	ND	0.040	µg/L								
Aroclor-1248 [2C]	ND	0.040	µg/L								
Aroclor-1254	ND	0.040	µg/L								
Aroclor-1254 [2C]	ND	0.040	µg/L								
Aroclor-1260	ND	0.040	µg/L								
Aroclor-1260 [2C]	ND	0.040	µg/L								R-05
Aroclor-1262	ND	0.040	µg/L								
Aroclor-1262 [2C]	ND	0.040	µg/L								
Aroclor-1268	ND	0.040	µg/L								
Aroclor-1268 [2C]	ND	0.040	µg/L								
Surrogate: Decachlorobiphenyl	*1.38*		µg/L	2.00		68.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.79*		µg/L	2.00		89.7	30-150				
Surrogate: Tetrachloro-m-xylene	*1.34*		µg/L	2.00		66.8	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.81*		µg/L	2.00		90.3	30-150				
LCS (B183981-BS1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	0.48	0.20	µg/L	0.500		96.5	40-140				
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.4	40-140				
Aroclor-1260	0.39	0.20	µg/L	0.500		77.0	40-140				
Aroclor-1260 [2C]	0.38	0.20	µg/L	0.500		75.4	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		75.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.63*		µg/L	2.00		81.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.76*		µg/L	2.00		87.8	30-150				
LCS Dup (B183981-BSD1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	0.54	0.20	µg/L	0.500		107	40-140	10.6		20	
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140	15.8		20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.7	40-140	14.1		20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140	**24.7**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.75*		µg/L	2.00		87.6	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.92*		µg/L	2.00		96.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.78*		µg/L	2.00		89.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.95*		µg/L	2.00		97.5	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 B184053 - SW-846 3540C										
Blank (B184053-BLK1)				Prepared: 08/14/17 Analyzed: 08/16/17						
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	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS (B184053-BS1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.7	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140			
Surrogate: Decachlorobiphenyl	*0.152*		mg/Kg wet	0.200		76.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg wet	0.200		96.7	30-150			
LCS Dup (B184053-BSD1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.6	40-140	8.87	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	6.60	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.3	40-140	6.40	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.9	40-140	6.66	30	
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg wet	0.200		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184156 - SW-846 3540C										
Blank (B184156-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.993*		mg/Kg	1.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.935*		mg/Kg	1.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.814*		mg/Kg	1.00		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.900*		mg/Kg	1.00		90.0	30-150			
LCS (B184156-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00		81.2	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.3	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.883*		mg/Kg	1.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.759*		mg/Kg	1.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B184156-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		87.8	40-140	7.77	30	
Aroclor-1016 [2C]	0.99	0.10	mg/Kg	1.00		99.1	40-140	8.57	30	
Aroclor-1260	0.92	0.10	mg/Kg	1.00		92.1	40-140	11.1	30	
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.893*		mg/Kg	1.00		89.3	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 B184016 - SW-846 3546										
Blank (B184016-BLK1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.32*		mg/Kg wet	3.33		99.5	50-150			
LCS (B184016-BS1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	24.4	10	mg/Kg wet	33.3		73.1	60-120			
Surrogate: o-Terphenyl	*3.08*		mg/Kg wet	3.33		92.4	50-150			
LCS Dup (B184016-BSD1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	27.1	10	mg/Kg wet	33.3		81.3	60-120	10.7	30	
Surrogate: o-Terphenyl	*3.43*		mg/Kg wet	3.33		103	50-150			
Batch B184126 - SW-846 3510C										
Blank (B184126-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0836*		mg/L	0.100		83.6	50-150			
LCS (B184126-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	0.765	0.075	mg/L	1.00		76.5	60-120			
Surrogate: o-Terphenyl	*0.0930*		mg/L	0.100		93.0	50-150			
LCS Dup (B184126-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	0.749	0.075	mg/L	1.00		74.9	60-120	2.10	30	
Surrogate: o-Terphenyl	*0.0919*		mg/L	0.100		91.9	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-2

Lab Sample ID: 17H0394-01

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.96	25.9
Aroclor-1254	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.97	31.0
Aroclor-1260	1	0.000	-0.030	0.030	0.58	
	2	0.000	-0.030	0.030	0.64	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-3

Lab Sample ID: 17H0394-02 Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.9	17.1
Aroclor-1254	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.7	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.80	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-4

Lab Sample ID: 17H0394-03

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.93	24.1
Aroclor-1254	1	0.000	-0.030	0.030	0.84	
	2	0.000	-0.030	0.030	1.0	17.4
Aroclor-1260	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.70	4.4

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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.

R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

17H0394

con-test ANALYTICAL LABORATORY

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Rev 04.05.12

Company Name: Weston + Sampson
Address: 273 Dividend Rd
Rocky Hill, CT 06067
Attention: Malcolm Beeler
Project Location: English Station
Sampled By: Will Sirotnak

Telephone: 860-513-1473
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: beelerm@wseinc.com
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs via Soxhlet	CT ETPH	PAHs									
								I											
								A											
1	WS-AOC14-Se-2	8/8/17	1200		X	S	U	X	X	X									
2	WS-AOC14-Se-3	8/8/17	1000		↓	↓	↓	X	X	X									
3	WS-AOC14-Se-4	↓	1400		↓	↓	↓	X	X	X									
4	WS-AOC14-CO-3	↓	1015		X	O	U	X											
5	Equipment blank-32	↓	1430		X	W	↓	X	X	X									
6	Equipment blank-33	↓	1445		X	W	↓	X											

Comments:
Run Se-2, Se-3, Se-4 as Solid.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Concrete

Relinquished by: (signature)	Date/Time:
8/8/17	
Received by: (signature)	Date/Time:
8/8/17	
Relinquished by: (signature)	Date/Time:
8/8/17	
Received by: (signature)	Date/Time:
Contest 4D 8/8/17	1615

Turnaround ‡
☑ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: TSCA
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston + Sampson

Received By A.F. Date 8/8/17 Time 1615

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
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 ID's T Sampler Name T
Project T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A
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.	7	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
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\A081717\A0817006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/17/17
Data File Name A0817006.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	540991	570819	-5
c - 10	1.64	544924	570819	-5
c - 12	2.37	556484	570819	-3
c - 14	3.05	564994	570819	-1
c - 16	3.65	578473	570819	1
c - 18	4.29	576059	570819	1
o-Terphenyl	4.57	653528	570819	
c - 20	4.89	590252	570819	3
c - 22	5.40	606984	570819	6
c - 24	5.84	571691	570819	0
c - 26	6.23	604291	570819	6
c - 28	6.60	591952	570819	4
c - 30	6.93	577792	570819	1
c - 32	7.24	555059	570819	-3
c - 34	7.54	552787	570819	-3
c - 36	7.89	549559	570819	-4

* One compound allowed %D <= 50%

Samples

17H0394-01@25X
17H0394-03@50X

D:\HPCHEM\1\DATA\A081717.SEC\A0817007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/17/17
Data File Name	A0817007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	656420	700060	-6
c - 10	1.63	668303	700060	-5
c - 12	2.35	695645	700060	-1
c - 14	3.01	712597	700060	2
c - 16	3.62	727943	700060	4
c - 18	4.23	718431	700060	3
o-Terphenyl	4.51	798888	700060	
c - 20	4.84	725022	700060	4
c - 22	5.34	733139	700060	5
c - 24	5.78	682958	700060	-2
c - 26	6.17	717420	700060	2
c - 28	6.53	705321	700060	1
c - 30	6.86	698216	700060	0
c - 32	7.17	680459	700060	-3
c - 34	7.46	686681	700060	-2
c - 36	7.78	692339	700060	-1

* One compound allowed %D <= 50%

Samples

17H0394-02@10X

D:\HPCHEM\1\DATA\A081717\A0817024.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/17/17
Data File Name	A0817024.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	478711	508703	-6
c - 10	1.64	484497	508703	-5
c - 12	2.37	499324	508703	-2
c - 14	3.05	509329	508703	0
c - 16	3.66	522672	508703	3
c - 18	4.29	519758	508703	2
o-Terphenyl	4.57	580983	508703	
c - 20	4.89	528784	508703	4
c - 22	5.40	539953	508703	6
c - 24	5.84	503971	508703	-1
c - 26	6.24	528295	508703	4
c - 28	6.60	517203	508703	2
c - 30	6.93	508357	508703	0
c - 32	7.24	494707	508703	-3
c - 34	7.54	496880	508703	-2
c - 36	7.89	498109	508703	-2

* One compound allowed %D <= 50%

Samples

17H0394-05

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: English Station

Project Number: 17H0394

Laboratory Sample ID(s):

17H0394-01 thru 17H0394-06

Sample Date(s):

08/08/2017

List RCP Methods Used:

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

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

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

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

Printed Name: **Lisa A. Worthington** **Date:** **08/21/17**

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

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

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

August 18, 2017

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

Project Location: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0533

Enclosed are results of analyses for samples received by the laboratory on August 9, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0533

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-5	17H0533-01	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-6	17H0533-02	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-7	17H0533-03	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-8	17H0533-04	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-CO-2	17H0533-05	Product/Solid		SW-846 8082A	
WS-AOC14-CO-4	17H0533-06	Product/Solid		SW-846 8082A	
WS-AOC14-CO-5	17H0533-07	Product/Solid		SW-846 8082A	
WS-AOC14-CO-6	17H0533-08	Product/Solid		SW-846 8082A	
WS-AOC14-CO-7	17H0533-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-8	17H0533-10	Product/Solid		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.

SW-846 8082A

Qualifications:

MS-21

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B184156-MS1, B184156-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.

Daren J. Damboragian
Director of Operations

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5 | Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Acenaphthylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(a)anthracene	1.6	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(a)pyrene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(b)fluoranthene	2.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(g,h,i)perylene	0.86	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(k)fluoranthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Chrysene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Fluoranthene	3.8	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Fluorene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Indeno(1,2,3-cd)pyrene	0.94	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Naphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Phenanthrene	3.4	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Pyrene	3.3	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	87.1	30-130		8/17/17 14:05
2-Fluorobiphenyl	70.1	30-130		8/17/17 14:05
p-Terphenyl-d14	75.8	30-130		8/17/17 14:05

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5 | Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1248 [2]	0.51	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1254 [2]	0.57	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1260 [1]	0.24	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/17/17 15:47
Decachlorobiphenyl [2]	105	30-150		8/17/17 15:47
Tetrachloro-m-xylene [1]	85.3	30-150		8/17/17 15:47
Tetrachloro-m-xylene [2]	93.9	30-150		8/17/17 15:47

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

Project Location: English Station
Sample Description:
Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5
Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/16/17 9:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	56.5	50-150		8/16/17 9:20

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6 | Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Acenaphthylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(a)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(a)pyrene	0.85	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(b)fluoranthene	1.2	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(g,h,i)perylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(k)fluoranthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Chrysene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Dibenz(a,h)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Fluoranthene	1.5	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Fluorene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
2-Methylnaphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Naphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Phenanthrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Pyrene	1.8	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	77.4	30-130		8/17/17 14:31
2-Fluorobiphenyl	65.4	30-130		8/17/17 14:31
p-Terphenyl-d14	64.3	30-130		8/17/17 14:31

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6 | Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

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	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1248 [2]	0.62	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1254 [2]	0.83	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1260 [2]	0.33	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/17/17 16:04
Decachlorobiphenyl [2]	113	30-150		8/17/17 16:04
Tetrachloro-m-xylene [1]	91.4	30-150		8/17/17 16:04
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 16:04

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

Project Location: English Station
Sample Description:
Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6
Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/15/17 17:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	67.8	50-150		8/15/17 17:36

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-7 | Sampled: 8/9/2017 12:15

Sample ID: 17H0533-03

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Acenaphthylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(a)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(a)pyrene	0.94	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(b)fluoranthene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(g,h,i)perylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(k)fluoranthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Chrysene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Fluoranthene	1.4	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Fluorene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Naphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Phenanthrene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Pyrene	1.7	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.2	30-130		8/17/17 14:57
2-Fluorobiphenyl	47.9	30-130		8/17/17 14:57
p-Terphenyl-d14	47.9	30-130		8/17/17 14:57

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-7 | Sampled: 8/9/2017 12:15

Sample ID: 17H0533-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1248 [2]	0.30	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1254 [2]	0.42	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1260 [2]	0.29	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/17/17 16:22
Decachlorobiphenyl [2]	110	30-150		8/17/17 16:22
Tetrachloro-m-xylene [1]	88.6	30-150		8/17/17 16:22
Tetrachloro-m-xylene [2]	98.3	30-150		8/17/17 16:22

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

Project Location: English Station
Sample Description:
Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-7
Sampled: 8/9/2017 12:15

Sample ID: 17H0533-03

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	980	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/15/17 17:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	71.2	50-150		8/15/17 17:54

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-8 | Sampled: 8/9/2017 12:30

Sample ID: 17H0533-04

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Acenaphthylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(a)anthracene	0.97	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(a)pyrene	1.2	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(b)fluoranthene	1.9	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(g,h,i)perylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(k)fluoranthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Chrysene	1.1	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Dibenz(a,h)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Fluoranthene	2.5	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Fluorene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
2-Methylnaphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Naphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Phenanthrene	1.7	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Pyrene	2.6	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	77.5	30-130		8/17/17 15:23
2-Fluorobiphenyl	60.7	30-130		8/17/17 15:23
p-Terphenyl-d14	60.5	30-130		8/17/17 15:23

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-8 | Sampled: 8/9/2017 12:30

Sample ID: 17H0533-04

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	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1248 [2]	0.46	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1254 [2]	0.55	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1260 [2]	0.33	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/17/17 16:39
Decachlorobiphenyl [2]	108	30-150		8/17/17 16:39
Tetrachloro-m-xylene [1]	88.7	30-150		8/17/17 16:39
Tetrachloro-m-xylene [2]	97.2	30-150		8/17/17 16:39

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-SE-8
Sampled: 8/9/2017 12:30
Sample ID: 17H0533-04
Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	500	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/16/17 9:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.7	50-150		8/16/17 9:20

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-2 | Sampled: 8/9/2017 10:00

Sample ID: 17H0533-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.4	30-150		8/17/17 16:56
Decachlorobiphenyl [2]	99.3	30-150		8/17/17 16:56
Tetrachloro-m-xylene [1]	87.5	30-150		8/17/17 16:56
Tetrachloro-m-xylene [2]	95.9	30-150		8/17/17 16:56

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-CO-4
Sampled: 8/9/2017 10:30
Sample ID: 17H0533-06
Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/17/17 17:14
Decachlorobiphenyl [2]	103	30-150		8/17/17 17:14
Tetrachloro-m-xylene [1]	93.1	30-150		8/17/17 17:14
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 17:14

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-5 | Sampled: 8/9/2017 12:00

Sample ID: 17H0533-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.0	30-150		8/17/17 17:31
Decachlorobiphenyl [2]	91.5	30-150		8/17/17 17:31
Tetrachloro-m-xylene [1]	84.5	30-150		8/17/17 17:31
Tetrachloro-m-xylene [2]	90.1	30-150		8/17/17 17:31

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-CO-6
Sampled: 8/9/2017 12:30
Sample ID: 17H0533-08
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	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/17/17 17:48
Decachlorobiphenyl [2]	104	30-150		8/17/17 17:48
Tetrachloro-m-xylene [1]	94.1	30-150		8/17/17 17:48
Tetrachloro-m-xylene [2]	101	30-150		8/17/17 17:48

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-7 | Sampled: 8/9/2017 13:00

Sample ID: 17H0533-09

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	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		8/17/17 18:05
Decachlorobiphenyl [2]	107	30-150		8/17/17 18:05
Tetrachloro-m-xylene [1]	93.3	30-150		8/17/17 18:05
Tetrachloro-m-xylene [2]	99.4	30-150		8/17/17 18:05

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-8 | Sampled: 8/9/2017 13:30

Sample ID: 17H0533-10

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	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/17/17 18:23
Decachlorobiphenyl [2]	98.8	30-150		8/17/17 18:23
Tetrachloro-m-xylene [1]	84.2	30-150		8/17/17 18:23
Tetrachloro-m-xylene [2]	89.7	30-150		8/17/17 18:23

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0533-01 [WS-AOC14-SE-5]	B184119	6.00	1.00	08/15/17
17H0533-02 [WS-AOC14-SE-6]	B184119	6.00	1.00	08/15/17
17H0533-03 [WS-AOC14-SE-7]	B184119	6.00	1.00	08/15/17
17H0533-04 [WS-AOC14-SE-8]	B184119	6.00	1.00	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0533-01 [WS-AOC14-SE-5]	B184156	2.06	10.0	08/15/17
17H0533-02 [WS-AOC14-SE-6]	B184156	2.00	10.0	08/15/17
17H0533-03 [WS-AOC14-SE-7]	B184156	2.08	10.0	08/15/17
17H0533-04 [WS-AOC14-SE-8]	B184156	2.14	10.0	08/15/17
17H0533-05 [WS-AOC14-CO-2]	B184156	2.01	10.0	08/15/17
17H0533-06 [WS-AOC14-CO-4]	B184156	2.12	10.0	08/15/17
17H0533-07 [WS-AOC14-CO-5]	B184156	2.16	10.0	08/15/17
17H0533-08 [WS-AOC14-CO-6]	B184156	2.00	10.0	08/15/17
17H0533-09 [WS-AOC14-CO-7]	B184156	2.13	10.0	08/15/17
17H0533-10 [WS-AOC14-CO-8]	B184156	2.03	10.0	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0533-01 [WS-AOC14-SE-5]	B184250	6.01	1.00	08/16/17
17H0533-02 [WS-AOC14-SE-6]	B184250	6.05	1.00	08/16/17
17H0533-03 [WS-AOC14-SE-7]	B184250	6.02	1.00	08/16/17
17H0533-04 [WS-AOC14-SE-8]	B184250	6.10	1.00	08/16/17

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184250 - SW-846 3546										
Blank (B184250-BLK1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	ND	0.17	mg/Kg							
Acenaphthylene	ND	0.17	mg/Kg							
Anthracene	ND	0.17	mg/Kg							
Benzo(a)anthracene	ND	0.17	mg/Kg							
Benzo(a)pyrene	ND	0.17	mg/Kg							
Benzo(b)fluoranthene	ND	0.17	mg/Kg							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg							
Benzo(k)fluoranthene	ND	0.17	mg/Kg							
Chrysene	ND	0.17	mg/Kg							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg							
Fluoranthene	ND	0.17	mg/Kg							
Fluorene	ND	0.17	mg/Kg							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg							
2-Methylnaphthalene	ND	0.17	mg/Kg							
Naphthalene	ND	0.17	mg/Kg							
Phenanthrene	ND	0.17	mg/Kg							
Pyrene	ND	0.17	mg/Kg							
Surrogate: Nitrobenzene-d5	*2.13*		mg/Kg	3.33		63.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.44*		mg/Kg	3.33		73.2	30-130			
Surrogate: p-Terphenyl-d14	*2.77*		mg/Kg	3.33		83.2	30-130			
LCS (B184250-BS1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	1.09	0.17	mg/Kg	1.67		65.6	40-140			
Acenaphthylene	0.995	0.17	mg/Kg	1.67		59.7	40-140			
Anthracene	1.03	0.17	mg/Kg	1.67		62.1	40-140			
Benzo(a)anthracene	1.01	0.17	mg/Kg	1.67		60.8	40-140			
Benzo(a)pyrene	1.10	0.17	mg/Kg	1.67		66.1	40-140			
Benzo(b)fluoranthene	0.999	0.17	mg/Kg	1.67		59.9	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg	1.67		64.5	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg	1.67		66.3	40-140			
Chrysene	0.958	0.17	mg/Kg	1.67		57.5	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg	1.67		64.3	40-140			
Fluoranthene	1.02	0.17	mg/Kg	1.67		61.4	40-140			
Fluorene	1.02	0.17	mg/Kg	1.67		61.1	40-140			
Indeno(1,2,3-cd)pyrene	1.08	0.17	mg/Kg	1.67		64.9	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg	1.67		65.7	40-140			
Naphthalene	1.00	0.17	mg/Kg	1.67		60.0	40-140			
Phenanthrene	1.06	0.17	mg/Kg	1.67		63.9	40-140			
Pyrene	1.12	0.17	mg/Kg	1.67		67.5	40-140			
Surrogate: Nitrobenzene-d5	*2.50*		mg/Kg	3.33		75.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg	3.33		69.3	30-130			
Surrogate: p-Terphenyl-d14	*2.30*		mg/Kg	3.33		68.9	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 B184250 - SW-846 3546										
LCS Dup (B184250-BSD1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	1.22	0.17	mg/Kg	1.67		73.2	40-140	11.0	30	
Acenaphthylene	1.18	0.17	mg/Kg	1.67		70.8	40-140	17.0	30	
Anthracene	1.26	0.17	mg/Kg	1.67		75.8	40-140	19.8	30	
Benzo(a)anthracene	1.12	0.17	mg/Kg	1.67		67.5	40-140	10.3	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg	1.67		80.1	40-140	19.2	30	
Benzo(b)fluoranthene	1.29	0.17	mg/Kg	1.67		77.4	40-140	25.4	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg	1.67		62.6	40-140	2.96	30	
Benzo(k)fluoranthene	1.32	0.17	mg/Kg	1.67		79.5	40-140	18.2	30	
Chrysene	1.05	0.17	mg/Kg	1.67		62.8	40-140	8.94	30	
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg	1.67		64.9	40-140	0.836	30	
Fluoranthene	1.35	0.17	mg/Kg	1.67		80.9	40-140	27.3	30	
Fluorene	1.27	0.17	mg/Kg	1.67		76.0	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg	1.67		66.5	40-140	2.37	30	
2-Methylnaphthalene	1.29	0.17	mg/Kg	1.67		77.2	40-140	16.1	30	
Naphthalene	1.15	0.17	mg/Kg	1.67		69.1	40-140	14.0	30	
Phenanthrene	1.27	0.17	mg/Kg	1.67		76.3	40-140	17.7	30	
Pyrene	1.21	0.17	mg/Kg	1.67		72.6	40-140	7.34	30	
Surrogate: Nitrobenzene-d5	*2.87*		mg/Kg	3.33		86.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.64*		mg/Kg	3.33		79.1	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg	3.33		78.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184156 - SW-846 3540C										
Blank (B184156-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.993*		mg/Kg	1.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.935*		mg/Kg	1.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.814*		mg/Kg	1.00		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.900*		mg/Kg	1.00		90.0	30-150			
LCS (B184156-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00		81.2	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.3	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.883*		mg/Kg	1.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.759*		mg/Kg	1.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B184156-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		87.8	40-140	7.77	30	
Aroclor-1016 [2C]	0.99	0.10	mg/Kg	1.00		99.1	40-140	8.57	30	
Aroclor-1260	0.92	0.10	mg/Kg	1.00		92.1	40-140	11.1	30	
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.893*		mg/Kg	1.00		89.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B184156 - SW-846 3540C											
Matrix Spike (B184156-MS1)		**Source: 17H0533-01**		Prepared: 08/15/17 Analyzed: 08/17/17							
Aroclor-1016	1.3	0.098	mg/Kg	0.980	ND	132		40-140			
Aroclor-1016 [2C]	1.4	0.098	mg/Kg	0.980	ND	**145**	*	40-140			MS-21
Aroclor-1260	1.1	0.098	mg/Kg	0.980	0.24	84.9		40-140			
Aroclor-1260 [2C]	1.1	0.098	mg/Kg	0.980	0.23	91.0		40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	0.980		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	0.980		118		30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	0.980		83.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.903*		mg/Kg	0.980		92.1		30-150			
Matrix Spike Dup (B184156-MSD1)		**Source: 17H0533-01**		Prepared: 08/15/17 Analyzed: 08/17/17							
Aroclor-1016	1.3	0.10	mg/Kg	1.00	ND	126		40-140	2.84	50	
Aroclor-1016 [2C]	1.4	0.10	mg/Kg	1.00	ND	**141**	*	40-140	1.30	50	MS-21
Aroclor-1260	0.97	0.10	mg/Kg	1.00	0.24	73.5		40-140	9.57	50	
Aroclor-1260 [2C]	1.1	0.10	mg/Kg	1.00	0.23	86.4		40-140	2.57	50	
Surrogate: Decachlorobiphenyl	*0.977*		mg/Kg	1.00		97.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105		30-150			
Surrogate: Tetrachloro-m-xylene	*0.873*		mg/Kg	1.00		87.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.958*		mg/Kg	1.00		95.8		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 B184119 - SW-846 3546										
Blank (B184119-BLK1)				Prepared & Analyzed: 08/15/17						
CT ETPH	ND	50	mg/Kg							
Surrogate: o-Terphenyl	*12.0*		mg/Kg	16.7		72.2	50-150			
LCS (B184119-BS1)				Prepared & Analyzed: 08/15/17						
CT ETPH	108	50	mg/Kg	167		64.5	60-120			
Surrogate: o-Terphenyl	*12.8*		mg/Kg	16.7		77.0	50-150			
LCS Dup (B184119-BSD1)				Prepared & Analyzed: 08/15/17						
CT ETPH	110	50	mg/Kg	167		66.0	60-120	2.25	30	
Surrogate: o-Terphenyl	*13.3*		mg/Kg	16.7		79.9	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-5

Lab Sample ID: 17H0533-01

Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.51	12.5
Aroclor-1254	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.57	25.7
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.23	4.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-6

Lab Sample ID: 17H0533-02 Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.62	8.4
Aroclor-1254	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.83	42.3
Aroclor-1260	1	0.000	0.000	0.000	0.30	
	2	0.000	0.000	0.000	0.33	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-7

Lab Sample ID: 17H0533-03

Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.30	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.42	18.2
Aroclor-1260	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.29	10.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-8

Lab Sample ID: 17H0533-04

Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.46	6.7
Aroclor-1254	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.55	22.2
Aroclor-1260	1	0.000	0.000	0.000	0.27	
	2	0.000	0.000	0.000	0.33	20.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

17H0533

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: ✓PDF ☐ ✓ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsc.inc.com
Fax To #:

Company Name: Weston + Sampson
Address: 273 Dividend Road Rocky Hill, CT
Phone: 860-513-1473
Project Name: English Station
Project Location: New Haven
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Will Siretrak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB via Soxhlet	EDPH	PAHs											# of Containers / [2] Preservation Code / [3] Container Code
1	WS-AOC14-SE-5	8/9/17	930		X	S	U	X	X	X											
2	WS-AOC14-SE-6		945		X	S		X	X	X											
3	WS-AOC14-SE-7		1215		X	S		X	X	X											
4	WS-AOC14-SE-8		1230			S		X	X	X											
5	WS-AOC14-CO-2		1000			O		X													
6	WS-AOC14-CO-4		1030					X													
7	WS-AOC14-CO-5		1200					X													
8	WS-AOC14-CO-6		1230					X													
9	WS-AOC14-CO-7		1300					X													
10	WS-AOC14-CO-8	✓	1330		✓	✓	✓	X													

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments: Run SE-5 THRU SE-8 as solid

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

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
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) Concrete

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

Relinquished by: (signature) 8/9/17	Date/Time:	
Received by: (signature) Tom Mai 8/9/17	Date/Time: 1500	
Relinquished by: (signature) Tom Mai 8/9/17	Date/Time: 1745	
Received by: (signature) 4.5 8/9/17	Date/Time: 1745	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
GW
RES DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☑ Soxhlet
☐ Non Soxhlet

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39 Spruce St.
East Longmeadow, MA. 01028
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F: 413-525-6405
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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 8/9/17 Time 1745

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.5
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
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	4
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	6
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\A081517.SEC\A0815043.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/15/17
Data File Name	A0815043.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	608894	660897	-8
c - 10	1.63	636609	660897	-4
c - 12	2.35	664043	660897	0
c - 14	3.02	673916	660897	2
c - 16	3.62	685343	660897	4
c - 18	4.23	676312	660897	2
o-Terphenyl	4.52	752988	660897	
c - 20	4.84	684326	660897	4
c - 22	5.34	693182	660897	5
c - 24	5.78	644298	660897	-3
c - 26	6.17	675276	660897	2
c - 28	6.53	664675	660897	1
c - 30	6.86	659186	660897	0
c - 32	7.17	645569	660897	-2
c - 34	7.46	649625	660897	-2
c - 36	7.78	652196	660897	-1

* One compound allowed %D <= 50%

Samples

17H0533-02@5X
17H0533-03@5X

D:\HPCHEM\1\DATA\A081617\A0816006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/16/17
Data File Name	A0816006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	531325	568682	-7
c - 10	1.64	539659	568682	-5
c - 12	2.37	555392	568682	-2
c - 14	3.04	567428	568682	0
c - 16	3.65	584498	568682	3
c - 18	4.29	582918	568682	3
o-Terphenyl	4.57	655062	568682	
c - 20	4.89	593976	568682	4
c - 22	5.40	607532	568682	7
c - 24	5.84	567752	568682	0
c - 26	6.24	593752	568682	4
c - 28	6.60	579655	568682	2
c - 30	6.93	568902	568682	0
c - 32	7.25	552087	568682	-3
c - 34	7.54	552954	568682	-3
c - 36	7.89	552403	568682	-3

* One compound allowed %D <= 50%

Samples

17R0533-01@5X

D:\HPCHEM\1\DATA\A081617.SEC\A0816007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/16/17
Data File Name	A0816007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557509	596330	-7
c - 10	1.63	571411	596330	-4
c - 12	2.34	596431	596330	0
c - 14	3.01	609294	596330	2
c - 16	3.61	623386	596330	5
c - 18	4.23	615556	596330	3
o-Terphenyl	4.51	681312	596330	
c - 20	4.84	619067	596330	4
c - 22	5.34	625989	596330	5
c - 24	5.78	581229	596330	-3
c - 26	6.17	609292	596330	2
c - 28	6.53	598795	596330	0
c - 30	6.86	593331	596330	-1
c - 32	7.17	579061	596330	-3
c - 34	7.46	582075	596330	-2
c - 36	7.78	582525	596330	-2

* One compound allowed %D <= 50%

Samples

17H0533-04@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: English Station

Project Number: 17H0533

Laboratory Sample ID(s):

17H0533-01 thru 17H0533-10

Sample Date(s):

08/09/2017

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:** **Director of Operations**

Printed Name: **Daren J. Damboragian** **Date:** **08/18/17**

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

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

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August 22, 2017

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

Project Location: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0617

Enclosed are results of analyses for samples received by the laboratory on August 10, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0617

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-12	17H0617-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-13	17H0617-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-14	17H0617-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-15	17H0617-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-16	17H0617-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-17	17H0617-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-18	17H0617-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-Co-13	17H0617-08	Concrete		SW-846 8082A	
WS-AOC14-Co-15	17H0617-09	Concrete		SW-846 8082A	
WS-AOC14-Co-18	17H0617-10	Concrete		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-12 | Sampled: 8/10/2017 10:30

Sample ID: 17H0617-01

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	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1248 [1]	0.94	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1254 [2]	1.2	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1260 [1]	0.58	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.9	30-150		8/21/17 18:47
Decachlorobiphenyl [2]	75.9	30-150		8/21/17 18:47
Tetrachloro-m-xylene [1]	82.8	30-150		8/21/17 18:47
Tetrachloro-m-xylene [2]	78.6	30-150		8/21/17 18:47

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-12
Sampled: 8/10/2017 10:30

Sample ID: 17H0617-01

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	42.0		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station
Sample Description:
Work Order: 17H0617
Date Received: 8/10/2017
Field Sample #: WS-AOC14-SE-13
Sampled: 8/10/2017 11:08
Sample ID: 17H0617-02
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	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1248 [1]	0.86	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1254 [2]	1.2	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1260 [1]	0.47	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		8/21/17 19:05
Decachlorobiphenyl [2]	68.0	30-150		8/21/17 19:05
Tetrachloro-m-xylene [1]	76.3	30-150		8/21/17 19:05
Tetrachloro-m-xylene [2]	72.7	30-150		8/21/17 19:05

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-13
Sampled: 8/10/2017 11:08

Sample ID: 17H0617-02

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	48.2		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-14 | Sampled: 8/10/2017 11:30

Sample ID: 17H0617-03

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	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1221 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1232 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1242 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1248 [1]	0.90	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1254 [2]	1.2	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1260 [2]	0.38	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1262 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1268 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.8	30-150		8/21/17 19:24
Decachlorobiphenyl [2]	63.2	30-150		8/21/17 19:24
Tetrachloro-m-xylene [1]	72.4	30-150		8/21/17 19:24
Tetrachloro-m-xylene [2]	69.7	30-150		8/21/17 19:24

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-14
Sampled: 8/10/2017 11:30

Sample ID: 17H0617-03

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	38.1		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-15 | Sampled: 8/10/2017 13:00

Sample ID: 17H0617-04

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	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1221 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1232 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1242 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1248 [1]	0.67	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1254 [2]	0.78	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1260 [1]	0.39	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1262 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1268 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.0	30-150		8/21/17 20:32
Decachlorobiphenyl [2]	67.9	30-150		8/21/17 20:32
Tetrachloro-m-xylene [1]	78.8	30-150		8/21/17 20:32
Tetrachloro-m-xylene [2]	71.2	30-150		8/21/17 20:32

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-15
Sampled: 8/10/2017 13:00

Sample ID: 17H0617-04

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	32.4		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-16 | Sampled: 8/10/2017 13:15

Sample ID: 17H0617-05

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	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1248 [1]	0.68	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1254 [2]	0.85	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1260 [1]	0.35	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.3	30-150		8/21/17 20:50
Decachlorobiphenyl [2]	72.5	30-150		8/21/17 20:50
Tetrachloro-m-xylene [1]	76.6	30-150		8/21/17 20:50
Tetrachloro-m-xylene [2]	68.2	30-150		8/21/17 20:50

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-16
Sampled: 8/10/2017 13:15

Sample ID: 17H0617-05

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	30.2		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-17 | Sampled: 8/10/2017 13:30

Sample ID: 17H0617-06

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	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1248 [1]	0.34	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1254 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1260 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.4	30-150		8/21/17 21:08
Decachlorobiphenyl [2]	58.5	30-150		8/21/17 21:08
Tetrachloro-m-xylene [1]	65.3	30-150		8/21/17 21:08
Tetrachloro-m-xylene [2]	55.4	30-150		8/21/17 21:08

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-17
Sampled: 8/10/2017 13:30

Sample ID: 17H0617-06

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	30.5		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station
Sample Description:
Work Order: 17H0617
Date Received: 8/10/2017
Field Sample #: WS-AOC14-SE-18
Sampled: 8/10/2017 13:45
Sample ID: 17H0617-07
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	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1221 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1232 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1242 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1248 [1]	0.54	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1254 [1]	0.47	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1260 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1262 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1268 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		8/21/17 21:27
Decachlorobiphenyl [2]	59.9	30-150		8/21/17 21:27
Tetrachloro-m-xylene [1]	69.0	30-150		8/21/17 21:27
Tetrachloro-m-xylene [2]	55.0	30-150		8/21/17 21:27

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-18
Sampled: 8/10/2017 13:45

Sample ID: 17H0617-07

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	28.3		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-13 | Sampled: 8/10/2017 12:30

Sample ID: 17H0617-08

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.5	30-150		8/19/17 10:23
Decachlorobiphenyl [2]	75.9	30-150		8/19/17 10:23
Tetrachloro-m-xylene [1]	73.9	30-150		8/19/17 10:23
Tetrachloro-m-xylene [2]	79.1	30-150		8/19/17 10:23

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-15 | Sampled: 8/10/2017 14:30

Sample ID: 17H0617-09

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		8/19/17 10:41
Decachlorobiphenyl [2]	78.5	30-150		8/19/17 10:41
Tetrachloro-m-xylene [1]	80.9	30-150		8/19/17 10:41
Tetrachloro-m-xylene [2]	87.4	30-150		8/19/17 10:41

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-18 | Sampled: 8/10/2017 14:50

Sample ID: 17H0617-10

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		8/19/17 10:58
Decachlorobiphenyl [2]	89.5	30-150		8/19/17 10:58
Tetrachloro-m-xylene [1]	80.8	30-150		8/19/17 10:58
Tetrachloro-m-xylene [2]	84.6	30-150		8/19/17 10:58

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0617-01 [WS-AOC14-SE-12]	B183882	08/11/17
17H0617-02 [WS-AOC14-SE-13]	B183882	08/11/17
17H0617-03 [WS-AOC14-SE-14]	B183882	08/11/17
17H0617-04 [WS-AOC14-SE-15]	B183882	08/11/17
17H0617-05 [WS-AOC14-SE-16]	B183882	08/11/17
17H0617-06 [WS-AOC14-SE-17]	B183882	08/11/17
17H0617-07 [WS-AOC14-SE-18]	B183882	08/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0617-08 [WS-AOC14-Co-13]	B184283	2.00	10.0	08/16/17
17H0617-09 [WS-AOC14-Co-15]	B184283	2.00	10.0	08/16/17
17H0617-10 [WS-AOC14-Co-18]	B184283	2.00	10.0	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0617-01 [WS-AOC14-SE-12]	B184282	10.0	10.0	08/16/17
17H0617-02 [WS-AOC14-SE-13]	B184282	10.0	10.0	08/16/17
17H0617-03 [WS-AOC14-SE-14]	B184282	10.0	10.0	08/16/17
17H0617-04 [WS-AOC14-SE-15]	B184282	10.0	10.0	08/16/17
17H0617-05 [WS-AOC14-SE-16]	B184282	10.0	10.0	08/16/17
17H0617-06 [WS-AOC14-SE-17]	B184282	10.0	10.0	08/16/17
17H0617-07 [WS-AOC14-SE-18]	B184282	10.0	10.0	08/16/17

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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 B184282 - SW-846 3540C										
Blank (B184282-BLK1)				Prepared: 08/16/17 Analyzed: 08/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		75.0	30-150			
LCS (B184282-BS1)				Prepared: 08/16/17 Analyzed: 08/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.0	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.7	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.4	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.200		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.200		78.0	30-150			
LCS Dup (B184282-BSD1)				Prepared: 08/16/17 Analyzed: 08/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5	40-140	4.29	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.1	40-140	2.82	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	5.67	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	5.26	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184283 - SW-846 3540C										
Blank (B184283-BLK1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.914*		mg/Kg	1.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS (B184283-BS1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		93.9	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		79.6	40-140			
Surrogate: Decachlorobiphenyl	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
LCS Dup (B184283-BSD1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.6	40-140	2.54	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.3	40-140	0.0915	30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		80.0	40-140	0.963	30	
Aroclor-1260 [2C]	0.77	0.10	mg/Kg	1.00		77.0	40-140	3.33	30	
Surrogate: Decachlorobiphenyl	*0.879*		mg/Kg	1.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.905*		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.948*		mg/Kg	1.00		94.8	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-12

Lab Sample ID: 17H0617-01

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.94	
	2	0.000	-0.030	0.030	0.84	11.2
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.58	
	2	0.000	-0.030	0.030	0.56	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-13

Lab Sample ID: 17H0617-02 Date(s) Analyzed: 08/21/2017 08/21/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.76	12.3
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.46	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-14

Lab Sample ID: 17H0617-03 Date(s) Analyzed: 08/21/2017 08/21/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.90	
	2	0.000	-0.030	0.030	0.84	6.9
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.38	8.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-15

Lab Sample ID: 17H0617-04 Date(s) Analyzed: 08/21/2017 08/21/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.64	4.6
Aroclor-1254	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.78	15.2
Aroclor-1260	1	0.000	-0.030	0.030	0.39	
	2	0.000	-0.030	0.030	0.37	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-16

Lab Sample ID: 17H0617-05

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.68	
	2	0.000	-0.030	0.030	0.64	6.1
Aroclor-1254	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.85	15.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-18

Lab Sample ID: 17H0617-07

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.54	
	2	0.000	-0.030	0.030	0.39	32.3
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.45	4.4

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
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

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

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

17H0617

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston + Sampson
Address:	273 Dividend Road - Rocky Hill
Phone:	860-513-1473
Project Name:	English Station
Project Location:	New Haven
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Will Siretwak

Requested Turnaround Time
7-Day ☐ ✓ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☐ ✓ EXCEL ☐ ✓
Other:
CLP Like Data Pkg Required: ☐
Email To: beelermewseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs via Soxhlet												# of Containers
1	WS-AOC14-SE-12	8/10/17	1030		X	S	U	X												[2] Preservation Code
2	WS-AOC14-SE-13		1100					X												[3] Container Code
3	WS-AOC14-SE-14		1130					X												
4	WS-AOC14-SE-15		1300					X												
5	WS-AOC14-SE-16		1315					X												
6	WS-AOC14-SE-17		1330					X												
7	WS-AOC14-SE-18		1345					X												
8	WS-AOC14-Co-13		1230			O		X												
9	WS-AOC14-Co-15		1430			O		X												
10	WS-AOC14-Co-18		1450			O		X												

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

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
SL = Sludge
SOL = Solid
O = Other (please define) Concrete

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

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

Relinquished by: (signature)	8/10/17	Date/Time:
Received by: (signature)	8-10-17	Date/Time: 3:30
Relinquished by: (signature)	8-10-17	Date/Time: 5:40
Received by: (signature) Antonio Fetuno	8/10/17	Date/Time: 1740
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
RES DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ ✓ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ ✓ Soxhlet
☐ Non Soxhlet

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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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 A.F. Date 8/10/17 Time 1740

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 - 5.6
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
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? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A
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	7
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	3
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: English Station

Project Number: 17H0617

Laboratory Sample ID(s):

17H0617-01 thru 17H0617-10

Sample Date(s):

08/10/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/22/17**

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

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

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

August 24, 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: 17H0711

Enclosed are results of analyses for samples received by the laboratory on August 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0711

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-AOC14-SE-19	17H0711-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-20	17H0711-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-21	17H0711-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-22	17H0711-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-23	17H0711-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-24	17H0711-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-25	17H0711-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-26	17H0711-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-27	17H0711-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-28	17H0711-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-Co-26	17H0711-11	Product/Solid		SW-846 8082A	
WS-AOC14-SE-Dup-1	17H0711-12	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank-38	17H0711-13	Equipment Blank Water		SW-846 8082A	
Equipment Blank-39	17H0711-14	Equipment Blank Water		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.

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

17H0711-04[WS-AOC14-SE-22], 17H0711-05[WS-AOC14-SE-23], 17H0711-12[WS-AOC14-SE-Dup-1]

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-19 Sampled: 8/11/2017 09:00

Sample ID: 17H0711-01

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	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1248 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1254 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1260 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.5	30-150		8/24/17 4:36
Decachlorobiphenyl [2]	38.0	30-150		8/24/17 4:36
Tetrachloro-m-xylene [1]	30.7	30-150		8/24/17 4:36
Tetrachloro-m-xylene [2]	31.2	30-150		8/24/17 4:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-19 Sampled: 8/11/2017 09:00

Sample ID: 17H0711-01

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	50.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-20 Sampled: 8/11/2017 09:15

Sample ID: 17H0711-02

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	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1254 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1260 [2]	0.31	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/24/17 4:54
Decachlorobiphenyl [2]	69.4	30-150		8/24/17 4:54
Tetrachloro-m-xylene [1]	60.5	30-150		8/24/17 4:54
Tetrachloro-m-xylene [2]	59.3	30-150		8/24/17 4:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-20 Sampled: 8/11/2017 09:15

Sample ID: 17H0711-02

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	42.8		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-21 Sampled: 8/11/2017 09:30

Sample ID: 17H0711-03

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	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1248 [2]	0.29	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1254 [2]	0.33	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1260 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.3	30-150		8/24/17 5:13
Decachlorobiphenyl [2]	89.0	30-150		8/24/17 5:13
Tetrachloro-m-xylene [1]	76.1	30-150		8/24/17 5:13
Tetrachloro-m-xylene [2]	74.7	30-150		8/24/17 5:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-21 Sampled: 8/11/2017 09:30

Sample ID: 17H0711-03

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	42.3		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-22 Sampled: 8/11/2017 09:45

Sample ID: 17H0711-04

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	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1254 [2]	0.37	0.25	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.9	30-150		8/24/17 5:31
Decachlorobiphenyl [2]	69.7	30-150		8/24/17 5:31
Tetrachloro-m-xylene [1]	61.6	30-150		8/24/17 5:31
Tetrachloro-m-xylene [2]	61.2	30-150		8/24/17 5:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-22 Sampled: 8/11/2017 09:45

Sample ID: 17H0711-04

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	40.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-23 Sampled: 8/11/2017 11:00

Sample ID: 17H0711-05

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	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1221 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1232 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1242 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1248 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1254 [2]	0.38	0.26	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1260 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1262 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1268 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.0	30-150		8/24/17 5:49
Decachlorobiphenyl [2]	84.4	30-150		8/24/17 5:49
Tetrachloro-m-xylene [1]	76.1	30-150		8/24/17 5:49
Tetrachloro-m-xylene [2]	76.1	30-150		8/24/17 5:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-23 Sampled: 8/11/2017 11:00

Sample ID: 17H0711-05

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	38.0		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-24 Sampled: 8/11/2017 11:30

Sample ID: 17H0711-06

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	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1254 [2]	0.23	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1260 [1]	0.20	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/24/17 6:08
Decachlorobiphenyl [2]	87.4	30-150		8/24/17 6:08
Tetrachloro-m-xylene [1]	83.0	30-150		8/24/17 6:08
Tetrachloro-m-xylene [2]	82.0	30-150		8/24/17 6:08

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-24 Sampled: 8/11/2017 11:30

Sample ID: 17H0711-06

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	51.6		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-25 Sampled: 8/11/2017 12:00

Sample ID: 17H0711-07

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	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1260 [1]	0.34	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/24/17 6:26
Decachlorobiphenyl [2]	93.1	30-150		8/24/17 6:26
Tetrachloro-m-xylene [1]	96.4	30-150		8/24/17 6:26
Tetrachloro-m-xylene [2]	89.8	30-150		8/24/17 6:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-25 Sampled: 8/11/2017 12:00

Sample ID: 17H0711-07

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	44.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-26 Sampled: 8/11/2017 12:30

Sample ID: 17H0711-08

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	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1221 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1232 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1242 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1248 [2]	0.85	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1254 [2]	1.0	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1260 [2]	0.51	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1262 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1268 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		8/24/17 6:44
Decachlorobiphenyl [2]	79.6	30-150		8/24/17 6:44
Tetrachloro-m-xylene [1]	82.8	30-150		8/24/17 6:44
Tetrachloro-m-xylene [2]	80.0	30-150		8/24/17 6:44

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-26 Sampled: 8/11/2017 12:30

Sample ID: 17H0711-08

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	27.9		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-27 Sampled: 8/11/2017 12:45

Sample ID: 17H0711-09

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	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1248 [1]	1.3	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1254 [2]	1.3	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1260 [2]	0.53	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		8/24/17 7:03
Decachlorobiphenyl [2]	85.1	30-150		8/24/17 7:03
Tetrachloro-m-xylene [1]	88.2	30-150		8/24/17 7:03
Tetrachloro-m-xylene [2]	84.8	30-150		8/24/17 7:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-27 Sampled: 8/11/2017 12:45

Sample ID: 17H0711-09

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	34.8		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-28 Sampled: 8/11/2017 13:00

Sample ID: 17H0711-10

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	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1221 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1232 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1242 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1248 [1]	0.94	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1254 [2]	1.1	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1260 [2]	0.58	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1262 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1268 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		8/24/17 7:21
Decachlorobiphenyl [2]	77.1	30-150		8/24/17 7:21
Tetrachloro-m-xylene [1]	80.5	30-150		8/24/17 7:21
Tetrachloro-m-xylene [2]	78.1	30-150		8/24/17 7:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-28 Sampled: 8/11/2017 13:00

Sample ID: 17H0711-10

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	31.4		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-Co-26 Sampled: 8/11/2017 14:00

Sample ID: 17H0711-11

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	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		8/19/17 14:14
Decachlorobiphenyl [2]	83.3	30-150		8/19/17 14:14
Tetrachloro-m-xylene [1]	79.8	30-150		8/19/17 14:14
Tetrachloro-m-xylene [2]	94.4	30-150		8/19/17 14:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-Dup-1 Sampled: 8/11/2017 00:00

Sample ID: 17H0711-12

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	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1254 [2]	0.61	0.25	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1260 [1]	0.32	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 7:39
Decachlorobiphenyl [2]	93.7	30-150		8/24/17 7:39
Tetrachloro-m-xylene [1]	82.2	30-150		8/24/17 7:39
Tetrachloro-m-xylene [2]	80.4	30-150		8/24/17 7:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-Dup-1 Sampled: 8/11/2017 00:00

Sample ID: 17H0711-12

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	39.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: Equipment Blank-38 Sampled: 8/11/2017 14:15

Sample ID: 17H0711-13

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.5	30-150		8/19/17 16:17
Decachlorobiphenyl [2]	49.3	30-150		8/19/17 16:17
Tetrachloro-m-xylene [1]	86.2	30-150		8/19/17 16:17
Tetrachloro-m-xylene [2]	97.1	30-150		8/19/17 16:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: Equipment Blank-39 Sampled: 8/11/2017 14:20

Sample ID: 17H0711-14

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.6	30-150		8/19/17 16:29
Decachlorobiphenyl [2]	71.4	30-150		8/19/17 16:29
Tetrachloro-m-xylene [1]	87.7	30-150		8/19/17 16:29
Tetrachloro-m-xylene [2]	97.2	30-150		8/19/17 16:29

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0711-01 [WS-AOC14-SE-19]	B184244	08/16/17
17H0711-02 [WS-AOC14-SE-20]	B184244	08/16/17
17H0711-03 [WS-AOC14-SE-21]	B184244	08/16/17
17H0711-04 [WS-AOC14-SE-22]	B184244	08/16/17
17H0711-05 [WS-AOC14-SE-23]	B184244	08/16/17
17H0711-06 [WS-AOC14-SE-24]	B184244	08/16/17
17H0711-07 [WS-AOC14-SE-25]	B184244	08/16/17
17H0711-08 [WS-AOC14-SE-26]	B184244	08/16/17
17H0711-09 [WS-AOC14-SE-27]	B184244	08/16/17
17H0711-10 [WS-AOC14-SE-28]	B184244	08/16/17
17H0711-12 [WS-AOC14-SE-Dup-1]	B184244	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0711-11 [WS-AOC14-Co-26]	B184283	2.00	10.0	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0711-01 [WS-AOC14-SE-19]	B184498	10.0	10.0	08/19/17
17H0711-02 [WS-AOC14-SE-20]	B184498	10.0	10.0	08/19/17
17H0711-03 [WS-AOC14-SE-21]	B184498	10.0	10.0	08/19/17
17H0711-04 [WS-AOC14-SE-22]	B184498	10.0	10.0	08/19/17
17H0711-05 [WS-AOC14-SE-23]	B184498	10.0	10.0	08/19/17
17H0711-06 [WS-AOC14-SE-24]	B184498	10.0	10.0	08/19/17
17H0711-07 [WS-AOC14-SE-25]	B184498	10.0	10.0	08/19/17
17H0711-08 [WS-AOC14-SE-26]	B184498	10.0	10.0	08/19/17
17H0711-09 [WS-AOC14-SE-27]	B184498	10.0	10.0	08/19/17
17H0711-10 [WS-AOC14-SE-28]	B184498	10.0	10.0	08/19/17
17H0711-12 [WS-AOC14-SE-Dup-1]	B184498	10.0	10.0	08/19/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0711-13 [Equipment Blank-38]	B184311	1000	10.0	08/17/17
17H0711-14 [Equipment Blank-39]	B184311	1000	10.0	08/17/17

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184311 - SW-846 3510C										
Blank (B184311-BLK1)				Prepared: 08/17/17 Analyzed: 08/19/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.92*		µg/L	2.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.15*		µg/L	2.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.11*		µg/L	2.00		106	30-150			
LCS (B184311-BS1)				Prepared: 08/17/17 Analyzed: 08/19/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		105	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		90.4	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.0	40-140			
Surrogate: Decachlorobiphenyl	*1.83*		µg/L	2.00		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.03*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.12*		µg/L	2.00		106	30-150			
LCS Dup (B184311-BSD1)				Prepared: 08/17/17 Analyzed: 08/19/17						
Aroclor-1016	0.56	0.20	µg/L	0.500		112	40-140	6.92	20	
Aroclor-1016 [2C]	0.58	0.20	µg/L	0.500		116	40-140	6.58	20	
Aroclor-1260	0.47	0.20	µg/L	0.500		94.1	40-140	4.05	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.9	40-140	7.39	20	
Surrogate: Decachlorobiphenyl	*1.89*		µg/L	2.00		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.11*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.12*		µg/L	2.00		106	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 B184283 - SW-846 3540C										
Blank (B184283-BLK1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.914*		mg/Kg	1.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS (B184283-BS1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		93.9	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		79.6	40-140			
Surrogate: Decachlorobiphenyl	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
LCS Dup (B184283-BSD1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.6	40-140	2.54	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.3	40-140	0.0915	30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		80.0	40-140	0.963	30	
Aroclor-1260 [2C]	0.77	0.10	mg/Kg	1.00		77.0	40-140	3.33	30	
Surrogate: Decachlorobiphenyl	*0.879*		mg/Kg	1.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.905*		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.948*		mg/Kg	1.00		94.8	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 B184498 - SW-846 3540C										
Blank (B184498-BLK1)				Prepared: 08/19/17 Analyzed: 08/24/17						
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	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.149*		mg/Kg wet	0.200		74.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.152*		mg/Kg wet	0.200		75.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		69.8	30-150			
LCS (B184498-BS1)				Prepared: 08/19/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.9	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.9	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		63.1	40-140			
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg wet	0.200		70.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.1	30-150			
LCS Dup (B184498-BSD1)				Prepared: 08/19/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.0	40-140	1.14	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		73.6	40-140	2.00	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.8	40-140	0.0948	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.6	40-140	2.32	30	
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		72.0	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184244 - % Solids										
Duplicate (B184244-DUP7)		**Source: 17H0711-01**		Prepared: 08/16/17 Analyzed: 08/17/17						
% Solids	58.6		% Wt		50.7			14.5	20	
Duplicate (B184244-DUP8)		**Source: 17H0711-02**		Prepared: 08/16/17 Analyzed: 08/17/17						
% Solids	37.2		% Wt		42.8			14.0	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-20

Lab Sample ID: 17H0711-02

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.28	
	2	0.000	-0.030	0.030	0.31	10.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-21

Lab Sample ID: 17H0711-03

Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.29	18.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-24

Lab Sample ID: 17H0711-06

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.20	
	2	0.000	-0.030	0.030	0.23	14.0

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-25

Lab Sample ID: 17H0711-07

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.34	
	2	0.000	-0.030	0.030	0.32	6.1

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-26

Lab Sample ID: 17H0711-08 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.84	
	2	0.000	-0.030	0.030	0.85	1.2
Aroclor-1254	1	0.000	-0.030	0.030	0.91	
	2	0.000	-0.030	0.030	1.0	9.4
Aroclor-1260	1	0.000	-0.030	0.030	0.48	
	2	0.000	-0.030	0.030	0.51	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-27

Lab Sample ID: 17H0711-09 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	1.3	
	2	0.000	-0.030	0.030	1.3	0.0
Aroclor-1254	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.3	8.0
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.53	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-28

Lab Sample ID: 17H0711-10 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.94	
	2	0.000	-0.030	0.030	0.90	4.4
Aroclor-1254	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	1.1	14.6
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.58	12.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-Dup-1

Lab Sample ID: 17H0711-12 Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.40	
	2	0.000	-0.030	0.030	0.61	41.6
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2

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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.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
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 Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17H0711

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

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:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs via Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC14-SE-19	8/11/17	900		X	S	U	X			
2	WS-AOC14-SE-20		915					X			
3	WS-AOC14-SE-21		930					X			
4	WS-AOC14-SE-22		945					X			
5	WS-AOC14-SE-23		1100					X			
6	WS-AOC14-SE-24		1130					X			
7	WS-AOC14-SE-25		1200					X			
8	WS-AOC14-SE-26		1230					X			
9	WS-AOC14-SE-27		1245					X			
10	WS-AOC14-SE-28		1300					X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 8/11/17	Date/Time: 14:45
Received by: (signature) 8/11/17	Date/Time: 14:45
Relinquished by: (signature) 8/11/17	Date/Time: 18:02
Received by: (signature) 8/11/17	Date/Time: 1802
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT Res Dec
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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17H0711

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Doc # 381 Rev 1_03242017

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Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs via Soxhlet	PCBs									# of Containers
																		[2] Preservation Code
																		[3] Container Code
11	WS-AOC14-Co-26	8/11/17	1400		X	O	U	X										
12	WS-AOC14-SE-Dp-1	↓			X	S	U	X										
13	Equipment Blank-38	↓	1415		X	W	U		X									
14	Equipment Blank-39	↓	1420		X	W	U		X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 8/11/17 14:45
Received by: (signature)	Date/Time: 8/11/17 14:45
Relinquished by: (signature)	Date/Time: 8/11/17 18:02
Received by: (signature)	Date/Time: 8/11/17 1802
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT Res Dec
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 8/11/17 Time 1802

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 - 5.0
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
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.	4	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	11
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
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: 17H0711

Laboratory Sample ID(s):

17H0711-01 thru 17H0711-14

Sample Date(s):

08/11/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/24/17**

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

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

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

August 28, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0854

Enclosed are results of analyses for samples received by the laboratory on August 15, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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17H0854-09	20
17H0854-10	21
17H0854-11	22
17H0854-12	23
17H0854-13	24
17H0854-14	25
17H0854-15	26
17H0854-16	27
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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: 8/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0854

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-14-SE-29	17H0854-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-30	17H0854-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-31	17H0854-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-32	17H0854-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-33	17H0854-05	Soil		SM 2540G	
				SW-846 8082A	
EB-40	17H0854-06	Equipment Blank Water		SW-846 8082A	
EB-41	17H0854-07	Equipment Blank Water		SW-846 8082A	
WS-AOC-8-AS-1	17H0854-08	Product/Solid		SW-846 8082A	
WS-AOC-8-AS-2	17H0854-09	Product/Solid		SW-846 8082A	
WS-AOC-8-AS-5	17H0854-10	Product/Solid		SW-846 8082A	
WS-AOC-8-CO-20	17H0854-11	Concrete		SW-846 8082A	
WS-AOC-8-CO-21	17H0854-12	Concrete		SW-846 8082A	
WS-AOC-8-CO-19	17H0854-13	Concrete		SW-846 8082A	
WS-AOC-8-CO-18	17H0854-14	Concrete		SW-846 8082A	
WS-AOC-8-CO-17	17H0854-15	Concrete		SW-846 8082A	
WS-AOC-8-CO-16	17H0854-16	Concrete		SW-846 8082A	
WS-AOC-8-CO-DUP-9	17H0854-17	Concrete		SW-846 8082A	
WS-AOC-7-CO-31	17H0854-18	Concrete		SW-846 8082A	
WS-AOC-7-CO-39	17H0854-19	Concrete		SW-846 8082A	
WS-AOC-7-CO-38	17H0854-20	Concrete		SW-846 8082A	
WS-AOC-7-CO-34	17H0854-21	Concrete		SW-846 8082A	
WS-AOC-7-CO-35	17H0854-22	Concrete		SW-846 8082A	
WS-AOC-7-CO-37	17H0854-23	Concrete		SW-846 8082A	
WS-AOC-7-CO-DUP-8	17H0854-24	Concrete		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.

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H0854-09RE1[WS-AOC-8-AS-2]

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
17H0854-03[WS-AOC-14-SE-31]

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
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1016 [2C]
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1260
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1260 [2C]
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1

V-06

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

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B184578-MS1, B184578-MS2, B184578-MSD1, B184578-MSD2

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-29 Sampled: 8/14/2017 12:30

Sample ID: 17H0854-01

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	0.33	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1248 [2]	1.9	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1254 [2]	2.1	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1260 [2]	0.87	0.33	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		8/21/17 18:20
Decachlorobiphenyl [2]	85.0	30-150		8/21/17 18:20
Tetrachloro-m-xylene [1]	88.7	30-150		8/21/17 18:20
Tetrachloro-m-xylene [2]	97.7	30-150		8/21/17 18:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-29 Sampled: 8/14/2017 12:30

Sample ID: 17H0854-01

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	30.0		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-30 Sampled: 8/14/2017 13:00

Sample ID: 17H0854-02

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	0.32	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1221 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1232 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1242 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1248 [2]	0.50	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1254 [2]	0.65	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1260 [2]	0.47	0.32	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1262 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1268 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.6	30-150		8/21/17 18:38
Decachlorobiphenyl [2]	87.8	30-150		8/21/17 18:38
Tetrachloro-m-xylene [1]	84.0	30-150		8/21/17 18:38
Tetrachloro-m-xylene [2]	95.1	30-150		8/21/17 18:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-30 Sampled: 8/14/2017 13:00

Sample ID: 17H0854-02

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	31.0		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-31 Sampled: 8/14/2017 13:30

Sample ID: 17H0854-03

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	0.34	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1221 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1232 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1242 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1248 [2]	0.52	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1254 [2]	0.57	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1260 [2]	0.50	0.34	mg/Kg dry	5	P-01, R-05	SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1262 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1268 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		8/21/17 18:56
Decachlorobiphenyl [2]	90.5	30-150		8/21/17 18:56
Tetrachloro-m-xylene [1]	85.8	30-150		8/21/17 18:56
Tetrachloro-m-xylene [2]	98.2	30-150		8/21/17 18:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-31 Sampled: 8/14/2017 13:30

Sample ID: 17H0854-03

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	29.4		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-32 Sampled: 8/14/2017 13:45

Sample ID: 17H0854-04

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	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1248 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1254 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1260 [2]	0.53	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.5	30-150		8/21/17 19:14
Decachlorobiphenyl [2]	82.5	30-150		8/21/17 19:14
Tetrachloro-m-xylene [1]	78.3	30-150		8/21/17 19:14
Tetrachloro-m-xylene [2]	88.8	30-150		8/21/17 19:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-32 Sampled: 8/14/2017 13:45

Sample ID: 17H0854-04

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	26.2		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-33 Sampled: 8/14/2017 14:15

Sample ID: 17H0854-05

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	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1248 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1254 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1260 [2]	0.58	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		8/21/17 19:31
Decachlorobiphenyl [2]	91.4	30-150		8/21/17 19:31
Tetrachloro-m-xylene [1]	87.0	30-150		8/21/17 19:31
Tetrachloro-m-xylene [2]	107	30-150		8/21/17 19:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-33 Sampled: 8/14/2017 14:15

Sample ID: 17H0854-05

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	26.5		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: EB-40 Sampled: 8/14/2017 14:00

Sample ID: 17H0854-06

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.7	30-150		8/22/17 12:35
Decachlorobiphenyl [2]	87.4	30-150		8/22/17 12:35
Tetrachloro-m-xylene [1]	84.7	30-150		8/22/17 12:35
Tetrachloro-m-xylene [2]	85.2	30-150		8/22/17 12:35

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: EB-41 Sampled: 8/15/2017 07:00

Sample ID: 17H0854-07

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.3	30-150		8/22/17 12:47
Decachlorobiphenyl [2]	59.0	30-150		8/22/17 12:47
Tetrachloro-m-xylene [1]	83.2	30-150		8/22/17 12:47
Tetrachloro-m-xylene [2]	82.9	30-150		8/22/17 12:47

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-1 Sampled: 8/15/2017 11:05

Sample ID: 17H0854-08

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	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		8/25/17 16:59
Decachlorobiphenyl [2]	78.4	30-150		8/25/17 16:59
Tetrachloro-m-xylene [1]	68.9	30-150		8/25/17 16:59
Tetrachloro-m-xylene [2]	64.1	30-150		8/25/17 16:59

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-2 Sampled: 8/15/2017 11:00

Sample ID: 17H0854-09

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1254 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		8/27/17 19:26
Decachlorobiphenyl [2]	73.1	30-150		8/27/17 19:26
Tetrachloro-m-xylene [1]	96.1	30-150		8/27/17 19:26
Tetrachloro-m-xylene [2]	94.8	30-150		8/27/17 19:26

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-5 Sampled: 8/15/2017 11:10

Sample ID: 17H0854-10

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	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.5	30-150		8/25/17 17:34
Decachlorobiphenyl [2]	69.9	30-150		8/25/17 17:34
Tetrachloro-m-xylene [1]	62.6	30-150		8/25/17 17:34
Tetrachloro-m-xylene [2]	57.2	30-150		8/25/17 17:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-20 Sampled: 8/15/2017 11:30

Sample ID: 17H0854-11

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.0	30-150		8/25/17 17:52
Decachlorobiphenyl [2]	58.8	30-150		8/25/17 17:52
Tetrachloro-m-xylene [1]	59.9	30-150		8/25/17 17:52
Tetrachloro-m-xylene [2]	51.3	30-150		8/25/17 17:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-21 Sampled: 8/15/2017 11:35

Sample ID: 17H0854-12

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		8/25/17 18:09
Decachlorobiphenyl [2]	76.7	30-150		8/25/17 18:09
Tetrachloro-m-xylene [1]	85.4	30-150		8/25/17 18:09
Tetrachloro-m-xylene [2]	69.1	30-150		8/25/17 18:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-19 Sampled: 8/15/2017 11:25

Sample ID: 17H0854-13

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		8/25/17 18:27
Decachlorobiphenyl [2]	72.2	30-150		8/25/17 18:27
Tetrachloro-m-xylene [1]	80.0	30-150		8/25/17 18:27
Tetrachloro-m-xylene [2]	73.5	30-150		8/25/17 18:27

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-18 Sampled: 8/15/2017 11:20

Sample ID: 17H0854-14

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.7	30-150		8/25/17 18:44
Decachlorobiphenyl [2]	79.3	30-150		8/25/17 18:44
Tetrachloro-m-xylene [1]	73.6	30-150		8/25/17 18:44
Tetrachloro-m-xylene [2]	66.1	30-150		8/25/17 18:44

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-17 Sampled: 8/15/2017 11:15

Sample ID: 17H0854-15

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		8/25/17 19:02
Decachlorobiphenyl [2]	78.5	30-150		8/25/17 19:02
Tetrachloro-m-xylene [1]	88.4	30-150		8/25/17 19:02
Tetrachloro-m-xylene [2]	74.4	30-150		8/25/17 19:02

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-16 Sampled: 8/15/2017 11:40

Sample ID: 17H0854-16

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.4	30-150		8/25/17 19:19
Decachlorobiphenyl [2]	67.1	30-150		8/25/17 19:19
Tetrachloro-m-xylene [1]	68.7	30-150		8/25/17 19:19
Tetrachloro-m-xylene [2]	66.6	30-150		8/25/17 19:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-DUP-9 Sampled: 8/15/2017 00:00

Sample ID: 17H0854-17

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/25/17 19:37
Decachlorobiphenyl [2]	64.0	30-150		8/25/17 19:37
Tetrachloro-m-xylene [1]	63.9	30-150		8/25/17 19:37
Tetrachloro-m-xylene [2]	59.3	30-150		8/25/17 19:37

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-31 Sampled: 8/15/2017 12:00

Sample ID: 17H0854-18

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		8/25/17 20:41
Decachlorobiphenyl [2]	74.7	30-150		8/25/17 20:41
Tetrachloro-m-xylene [1]	77.9	30-150		8/25/17 20:41
Tetrachloro-m-xylene [2]	70.6	30-150		8/25/17 20:41

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-39 Sampled: 8/15/2017 11:45

Sample ID: 17H0854-19

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.2	30-150		8/25/17 20:59
Decachlorobiphenyl [2]	85.3	30-150		8/25/17 20:59
Tetrachloro-m-xylene [1]	98.0	30-150		8/25/17 20:59
Tetrachloro-m-xylene [2]	79.9	30-150		8/25/17 20:59

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-38 Sampled: 8/15/2017 12:10

Sample ID: 17H0854-20

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		8/25/17 21:16
Decachlorobiphenyl [2]	86.4	30-150		8/25/17 21:16
Tetrachloro-m-xylene [1]	97.4	30-150		8/25/17 21:16
Tetrachloro-m-xylene [2]	79.3	30-150		8/25/17 21:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-34 Sampled: 8/15/2017 12:20

Sample ID: 17H0854-21

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1260 [1]	0.12	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		8/26/17 12:03
Decachlorobiphenyl [2]	65.2	30-150		8/26/17 12:03
Tetrachloro-m-xylene [1]	85.0	30-150		8/26/17 12:03
Tetrachloro-m-xylene [2]	71.5	30-150		8/26/17 12:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-35 Sampled: 8/15/2017 12:40

Sample ID: 17H0854-22

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		8/26/17 12:21
Decachlorobiphenyl [2]	74.9	30-150		8/26/17 12:21
Tetrachloro-m-xylene [1]	70.7	30-150		8/26/17 12:21
Tetrachloro-m-xylene [2]	66.3	30-150		8/26/17 12:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-37 Sampled: 8/15/2017 13:00

Sample ID: 17H0854-23

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1260 [1]	0.18	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.2	30-150		8/26/17 12:39
Decachlorobiphenyl [2]	62.6	30-150		8/26/17 12:39
Tetrachloro-m-xylene [1]	92.3	30-150		8/26/17 12:39
Tetrachloro-m-xylene [2]	83.3	30-150		8/26/17 12:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-DUP-8 Sampled: 8/15/2017 00:00

Sample ID: 17H0854-24

Sample Matrix: Concrete

Polychlorinated 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	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		8/25/17 22:26
Decachlorobiphenyl [2]	83.9	30-150		8/25/17 22:26
Tetrachloro-m-xylene [1]	93.9	30-150		8/25/17 22:26
Tetrachloro-m-xylene [2]	80.7	30-150		8/25/17 22:26

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0854-01 [WS-AOC-14-SE-29]	B184295	08/17/17
17H0854-02 [WS-AOC-14-SE-30]	B184295	08/17/17
17H0854-03 [WS-AOC-14-SE-31]	B184295	08/17/17
17H0854-04 [WS-AOC-14-SE-32]	B184295	08/17/17
17H0854-05 [WS-AOC-14-SE-33]	B184295	08/17/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-08 [WS-AOC-8-AS-1]	B184578	2.00	10.0	08/21/17
17H0854-10 [WS-AOC-8-AS-5]	B184578	2.01	10.0	08/21/17
17H0854-11 [WS-AOC-8-CO-20]	B184578	2.00	10.0	08/21/17
17H0854-12 [WS-AOC-8-CO-21]	B184578	2.03	10.0	08/21/17
17H0854-13 [WS-AOC-8-CO-19]	B184578	2.02	10.0	08/21/17
17H0854-14 [WS-AOC-8-CO-18]	B184578	2.02	10.0	08/21/17
17H0854-15 [WS-AOC-8-CO-17]	B184578	2.03	10.0	08/21/17
17H0854-16 [WS-AOC-8-CO-16]	B184578	2.01	10.0	08/21/17
17H0854-17 [WS-AOC-8-CO-DUP-9]	B184578	2.00	10.0	08/21/17
17H0854-18 [WS-AOC-7-CO-31]	B184578	2.05	10.0	08/21/17
17H0854-19 [WS-AOC-7-CO-39]	B184578	2.03	10.0	08/21/17
17H0854-20 [WS-AOC-7-CO-38]	B184578	2.04	10.0	08/21/17
17H0854-21 [WS-AOC-7-CO-34]	B184578	2.05	10.0	08/21/17
17H0854-22 [WS-AOC-7-CO-35]	B184578	2.00	10.0	08/21/17
17H0854-23 [WS-AOC-7-CO-37]	B184578	2.03	10.0	08/21/17
17H0854-24 [WS-AOC-7-CO-DUP-8]	B184578	2.04	10.0	08/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-09RE1 [WS-AOC-8-AS-2]	B184989	2.10	10.0	08/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-01 [WS-AOC-14-SE-29]	B184281	10.0	10.0	08/16/17
17H0854-02 [WS-AOC-14-SE-30]	B184281	10.0	10.0	08/16/17
17H0854-03 [WS-AOC-14-SE-31]	B184281	10.0	10.0	08/16/17
17H0854-04 [WS-AOC-14-SE-32]	B184281	10.0	10.0	08/16/17
17H0854-05 [WS-AOC-14-SE-33]	B184281	10.0	10.0	08/16/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0854-06 [EB-40]	B184505	950	9.50	08/20/17
17H0854-07 [EB-41]	B184505	1000	10.0	08/20/17

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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 B184505 - SW-846 3510C										
Blank (B184505-BLK1)				Prepared: 08/20/17 Analyzed: 08/22/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.79*		µg/L	2.00		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.81*		µg/L	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		84.2	30-150			
LCS (B184505-BS1)				Prepared: 08/20/17 Analyzed: 08/22/17						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.2	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/L	0.500		82.3	40-140			
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.88*		µg/L	2.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.67*		µg/L	2.00		83.4	30-150			
LCS Dup (B184505-BSD1)				Prepared: 08/20/17 Analyzed: 08/22/17						
Aroclor-1016	0.48	0.20	µg/L	0.500		97.0	40-140	10.6	20	
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.7	40-140	4.22	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.9	40-140	5.38	20	
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		79.2	40-140	3.82	20	
Surrogate: Decachlorobiphenyl	*1.64*		µg/L	2.00		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.52*		µg/L	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.53*		µg/L	2.00		76.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B184281 - SW-846 3540C											
Blank (B184281-BLK1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	ND	0.020	mg/Kg wet								R-05
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								R-05
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								R-05
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								R-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	*0.175*		mg/Kg wet	0.200		87.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.7	30-150				
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150				
LCS (B184281-BS1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140				R-05
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.2	40-140				R-05
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.5	40-140				R-05
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140				R-05
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150				
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150				
LCS Dup (B184281-BSD1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	0.12	0.020	mg/Kg wet	0.200		59.6	40-140	**36.2**	*	30	R-05
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		66.3	40-140	**31.5**	*	30	R-05
Aroclor-1260	0.11	0.020	mg/Kg wet	0.200		53.3	40-140	**36.9**	*	30	R-05
Aroclor-1260 [2C]	0.11	0.020	mg/Kg wet	0.200		55.1	40-140	**31.8**	*	30	R-05
Surrogate: Decachlorobiphenyl	*0.122*		mg/Kg wet	0.200		61.1	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.127*		mg/Kg wet	0.200		63.4	30-150				
Surrogate: Tetrachloro-m-xylene	*0.120*		mg/Kg wet	0.200		59.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.129*		mg/Kg wet	0.200		64.7	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 B184578 - SW-846 3540C										
Blank (B184578-BLK1)				Prepared: 08/21/17 Analyzed: 08/23/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.837*		mg/Kg	1.00		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.808*		mg/Kg	1.00		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.819*		mg/Kg	1.00		81.9	30-150			
LCS (B184578-BS1)				Prepared: 08/21/17 Analyzed: 08/23/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.5	40-140			
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		91.8	40-140			
Aroclor-1260	0.79	0.10	mg/Kg	1.00		78.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		80.2	40-140			
Surrogate: Decachlorobiphenyl	*0.872*		mg/Kg	1.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.832*		mg/Kg	1.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.821*		mg/Kg	1.00		82.1	30-150			
LCS Dup (B184578-BSD1)				Prepared: 08/21/17 Analyzed: 08/23/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00		89.7	40-140	0.938	30	
Aroclor-1016 [2C]	0.94	0.10	mg/Kg	1.00		94.0	40-140	2.37	30	
Aroclor-1260	0.79	0.10	mg/Kg	1.00		78.8	40-140	0.0915	30	
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.0	40-140	0.978	30	
Surrogate: Decachlorobiphenyl	*0.844*		mg/Kg	1.00		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.829*		mg/Kg	1.00		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.809*		mg/Kg	1.00		80.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184578 - SW-846 3540C										
Matrix Spike (B184578-MS1)		**Source: 17H0854-11**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.79	0.099	mg/Kg	0.990	ND	79.8	40-140			
Aroclor-1016 [2C]	0.75	0.099	mg/Kg	0.990	ND	75.9	40-140			
Aroclor-1260	0.86	0.099	mg/Kg	0.990	ND	86.9	40-140			
Aroclor-1260 [2C]	0.89	0.099	mg/Kg	0.990	ND	89.8	40-140			V-06
Surrogate: Decachlorobiphenyl	*0.924*		mg/Kg	0.990		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.882*		mg/Kg	0.990		89.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.903*		mg/Kg	0.990		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.696*		mg/Kg	0.990		70.3	30-150			
Matrix Spike (B184578-MS2)		**Source: 17H0854-18**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.76	0.099	mg/Kg	0.985	ND	77.0	40-140			
Aroclor-1016 [2C]	0.72	0.099	mg/Kg	0.985	ND	72.8	40-140			
Aroclor-1260	0.82	0.099	mg/Kg	0.985	ND	83.0	40-140			
Aroclor-1260 [2C]	0.85	0.099	mg/Kg	0.985	ND	85.8	40-140			V-06
Surrogate: Decachlorobiphenyl	*0.886*		mg/Kg	0.985		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.866*		mg/Kg	0.985		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.875*		mg/Kg	0.985		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.692*		mg/Kg	0.985		70.3	30-150			
Matrix Spike Dup (B184578-MSD1)		**Source: 17H0854-11**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00	ND	90.2	40-140	13.1	50	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00	ND	90.1	40-140	18.1	50	
Aroclor-1260	0.90	0.10	mg/Kg	1.00	ND	89.8	40-140	4.27	50	
Aroclor-1260 [2C]	0.94	0.10	mg/Kg	1.00	ND	94.3	40-140	5.89	50	V-06
Surrogate: Decachlorobiphenyl	*0.899*		mg/Kg	1.00		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.893*		mg/Kg	1.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.755*		mg/Kg	1.00		75.5	30-150			
Matrix Spike Dup (B184578-MSD2)		**Source: 17H0854-18**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.82	0.10	mg/Kg	1.00	ND	82.5	40-140	8.32	50	
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00	ND	80.2	40-140	11.2	50	
Aroclor-1260	0.80	0.10	mg/Kg	1.00	ND	80.3	40-140	1.81	50	
Aroclor-1260 [2C]	0.84	0.10	mg/Kg	1.00	ND	84.4	40-140	0.116	50	V-06
Surrogate: Decachlorobiphenyl	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.724*		mg/Kg	1.00		72.4	30-150			
Batch B184989 - SW-846 3540C										
Blank (B184989-BLK1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

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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 B184989 - SW-846 3540C										
Blank (B184989-BLK1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.852*		mg/Kg	1.00		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.891*		mg/Kg	1.00		89.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.855*		mg/Kg	1.00		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.913*		mg/Kg	1.00		91.3	30-150			
LCS (B184989-BS1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1016	0.98	0.10	mg/Kg	1.00		97.7	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		105	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.6	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		87.7	40-140			
Surrogate: Decachlorobiphenyl	*0.908*		mg/Kg	1.00		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.899*		mg/Kg	1.00		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
LCS Dup (B184989-BSD1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		100	40-140	2.51	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		107	40-140	1.03	30	
Aroclor-1260	0.86	0.10	mg/Kg	1.00		85.6	40-140	2.41	30	
Aroclor-1260 [2C]	0.90	0.10	mg/Kg	1.00		89.6	40-140	2.12	30	
Surrogate: Decachlorobiphenyl	*0.909*		mg/Kg	1.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.975*		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184295 - % Solids										
Duplicate (B184295-DUP1)		**Source: 17H0854-01**		Prepared: 08/17/17 Analyzed: 08/18/17						
% Solids	27.4		% Wt		30.0			9.06	20	
Duplicate (B184295-DUP2)		**Source: 17H0854-03**		Prepared: 08/17/17 Analyzed: 08/18/17						
% Solids	29.5		% Wt		29.4			0.340	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-29

Lab Sample ID: 17H0854-01

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	1.7	
	2	0.000	-0.030	0.030	1.9	11.1
Aroclor-1254	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	2.1	27.0
Aroclor-1260	1	0.000	-0.030	0.030	0.75	
	2	0.000	-0.030	0.030	0.87	14.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-30

Lab Sample ID: 17H0854-02 Date(s) Analyzed: 08/21/2017 08/21/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.50	27.3
Aroclor-1254	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.65	24.1
Aroclor-1260	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.47	23.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-31

Lab Sample ID: 17H0854-03

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.52	31.1
Aroclor-1254	1	0.000	-0.030	0.030	0.40	
	2	0.000	-0.030	0.030	0.57	35.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-33

Lab Sample ID: 17H0854-05

Date(s) Analyzed: 08/21/2017 08/21/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.58	27.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-7-CO-34

Lab Sample ID: 17H0854-21

Date(s) Analyzed: 08/26/2017 08/26/2017

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	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.10	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-7-CO-37

Lab Sample ID: 17H0854-23

Date(s) Analyzed: 08/26/2017 08/26/2017

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	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7

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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.

DL-03	Elevated reporting limit due to matrix.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
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 Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17H0054

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Requested Turnaround Time
7-Day [X] 10-Day [ ]
Due Date:

Rush-Approval Required
1-Day [ ] 3-Day [ ]
2-Day [ ] 4-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like Data Pkg Required: [ ]
Email To: beckerm@wsinc.com
Fax To #:

Company Name: Weston & Sampson
Address: 273 Divided Rd. Rocky Hill, CT
Phone: 800 SAMPSON
Project Name: English Station
Project Location: 510 Grand Ave New Haven, CT
Project Number: 0170495
Project Manager: Malcolm Becker
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB's
1	WS-AOC-14-SE-29	8/14/17	1230		X	S	U	X
2	WS-AOC-14-SE-30		1300		X			X
3	WS-AOC-14-SE-31		1330		X			X
4	WS-AOC-14-SE-32		1345		X			X
5	WS-AOC-14-SE-33		1415		X			X
6	EB-40		1400		X	O		X
7	EB-41	8/15/17	0700		X	O		X
8	WS-AOC-8-AS-1		1105		X	O		X
9	WS-AOC-8-AS-2		1100		X	O		X
10	WS-AOC-8-AS-5		1110		X	O		X

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

	Date/Time
Relinquished by: (signature)	8/15/17 1510
Received by: (signature)	8/15/17 1510
Relinquished by: (signature)	8/15/17 1420
Received by: (signature) 9.6°C/4.1°C 16:20	8/15/17
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT DEC
Other

Special Requirements
[ ] MA MCP Required
MCP Certification Form Required
[X] CT RCP Required
RCP Certification Form Required
[ ] MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY www.contestlabs.com
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Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

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

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

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

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con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson.
Address: 973 Dividend Rd Rocky Hill, CT
Phone: 800-SAMPSON.
Project Name: English Station.
Project Location: 510 Ground Ave New Haven, CT
Project Number: 2170419S.
Project Manager: Malcolm Beeler.
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day [X] 10-Day [ ]
Due Date:

Rush-Approval Required
1-Day [ ] 3-Day [ ]
2-Day [ ] 4-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like Data Pkg Required: [ ]
Email To: BeelerM@wsscinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs											# of Containers
11	WS-AOC-8-CO-20	8/15/17	1130		X	O	U	X											
12	WS-AOC-8-CO-21		1135																
13	WS-AOC-8-CO-19		1125																
14	WS-AOC-8-CO-18		1120																
15	WS-AOC-8-CO-17		1115																
16	WS-AOC-8-CO-16		1140																
17	WS-AOC-8-CO-DUP-7		—																
18	WS-AOC-7-CO-31		1200																
19	WS-AOC-7-CO-39		1145																
20	WS-AOC-7-CO-38		1210																

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

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

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

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

Comments:
WS-AOC-8-CO-20 is MS/MSD.
WS-AOC-7-CO-31 is MS/MSD.

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: 8/15/17 1510
Received by: (signature)	Date/Time: 8/15/17 1510
Relinquished by: (signature)	Date/Time: 8/15/17 1620
Received by: (signature) 4.6°C/Ice 8/15/17	Date/Time: 16:20
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT DEC
Other

Special Requirements
[ ] MA MCP Required
MCP Certification Form Required
[X] CT RCP Required
RCP Certification Form Required
[ ] MA State DW Required
PWSID #

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Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson.
Address: 273 Dividend Rd Rocky Hill CT
Phone: 800 SAMPSON
Project Name: English Station.
Project Location: 510 Grand Ave New Haven, CT
Project Number: 2170495.
Project Manager:
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: BeckerM@wsecnc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC-7-CO-34	8/15/17	1200		X	O	U	X			
22	WS-AOC-7-CO-35	↓	1240		X	O	U	X			
23	WS-AOC-7-CO-37	↓	1300		X	O	U	X			
24	WS-AOC-7-CO-DUP-8	↓	—		X	O	U	X			

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

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
SL = Sludge
SOL = Solid
O = Other (please define) porous media

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

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

Relinquished by: (signature)	Date/Time: 8/15/17 1510	**Detection Limit Requirements**	**Special Requirements**
Received by: (signature)	Date/Time: 8/15/17 1510		☐ MA MCP Required
Relinquished by: (signature)	Date/Time: 8/15/17 1621		MCP Certification Form Required
Received by: (signature) 6.1°C/4.6° 8/15/17	Date/Time: 16:20	WPA	☒ CT RCP Required
Relinquished by: (signature)	Date/Time:	GW DEC	RCP Certification Form Required
Received by: (signature)	Date/Time:		☐ MA State DW Required
		Other:	PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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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 WCG Date 8/15/17 Time 16:20

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1°C/4.6°C
By Blank # ___ Actual Temp - ___

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz ~~Amb~~/Clear	5
Meoh-		250 mL Amb.		250 mL Plastic		4oz ~~Amb~~/Clear	21
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: 17H0854

Laboratory Sample ID(s):

17H0854-01 thru 17H0854-24

Sample Date(s):

08/14/2017,
08/15/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/28/17**

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

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

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

August 24, 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: 17H0959

Enclosed are results of analyses for samples received by the laboratory on August 17, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0959

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-AOC2-SO-2-1	17H0959-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC2-SO-3-1	17H0959-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC2-SO-1-1	17H0959-03	Soil		SM 2540G	
				SW-846 8270D	

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

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

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.

Daren J. Damboragian
Director of Operations

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0959-01

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	92.5		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	CTL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0959-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Phenanthrene (SIM)	0.13	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	83.0	30-130		8/24/17 12:19
2-Fluorobiphenyl	80.4	30-130		8/24/17 12:19
p-Terphenyl-d14	64.7	30-130		8/24/17 12:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0959-02

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	92.1		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	CTL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0959-02

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(b)fluoranthene (SIM)	0.058	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Phenanthrene (SIM)	0.48	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.3	30-130		8/24/17 12:47
2-Fluorobiphenyl	79.1	30-130		8/24/17 12:47
p-Terphenyl-d14	62.4	30-130		8/24/17 12:47

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0959-03

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	90.0		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	CTL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0959-03

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	0.63	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Anthracene (SIM)	0.32	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(a)anthracene (SIM)	0.051	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(b)fluoranthene (SIM)	0.057	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Fluoranthene (SIM)	0.66	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Phenanthrene (SIM)	0.97	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.7	30-130		8/24/17 13:16
2-Fluorobiphenyl	79.3	30-130		8/24/17 13:16
p-Terphenyl-d14	68.3	30-130		8/24/17 13:16

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0959-01 [WS-AOC2-SO-2-1]	B183650	08/22/17
17H0959-02 [WS-AOC2-SO-3-1]	B183650	08/22/17
17H0959-03 [WS-AOC2-SO-1-1]	B183650	08/22/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 8/17/2017 per SW-846 1312 in Batch B184384**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0959-01 [WS-AOC2-SO-2-1]	B184797	1000	1.00	08/23/17
17H0959-02 [WS-AOC2-SO-3-1]	B184797	1000	1.00	08/23/17
17H0959-03 [WS-AOC2-SO-1-1]	B184797	1000	1.00	08/23/17

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

QUALITY CONTROL

SPLP - 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 B184797 - SW-846 3510C										
Blank (B184797-BLK1)				Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*81.9*		µg/L	100		81.9	30-130			
Surrogate: 2-Fluorobiphenyl	*80.8*		µg/L	100		80.8	30-130			
Surrogate: p-Terphenyl-d14	*70.1*		µg/L	100		70.1	30-130			
LCS (B184797-BS1)				Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	46.6	7.5	µg/L	50.0		93.2	40-140			
Acenaphthylene (SIM)	45.5	7.5	µg/L	50.0		91.0	40-140			
Anthracene (SIM)	48.7	5.0	µg/L	50.0		97.4	40-140			
Benzo(a)anthracene (SIM)	47.2	1.2	µg/L	50.0		94.5	40-140			
Benzo(a)pyrene (SIM)	50.5	2.5	µg/L	50.0		101	40-140			
Benzo(b)fluoranthene (SIM)	51.4	1.2	µg/L	50.0		103	40-140			
Benzo(g,h,i)perylene (SIM)	47.9	12	µg/L	50.0		95.8	40-140			
Benzo(k)fluoranthene (SIM)	50.2	5.0	µg/L	50.0		100	40-140			
Chrysene (SIM)	47.3	5.0	µg/L	50.0		94.6	40-140			
Dibenz(a,h)anthracene (SIM)	48.3	5.0	µg/L	50.0		96.6	40-140			
Fluoranthene (SIM)	47.7	12	µg/L	50.0		95.4	40-140			
Fluorene (SIM)	47.1	25	µg/L	50.0		94.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	47.9	5.0	µg/L	50.0		95.8	40-140			
2-Methylnaphthalene (SIM)	45.5	25	µg/L	50.0		91.0	40-140			
Naphthalene (SIM)	45.0	25	µg/L	50.0		90.0	40-140			
Phenanthrene (SIM)	47.6	1.2	µg/L	50.0		95.2	40-140			
Pyrene (SIM)	48.1	25	µg/L	50.0		96.2	40-140			
Surrogate: Nitrobenzene-d5	*98.6*		µg/L	100		98.6	30-130			
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	100		107	30-130			
Surrogate: p-Terphenyl-d14	*86.8*		µg/L	100		86.8	30-130			

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QUALITY CONTROL

SPLP - 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 B184797 - SW-846 3510C										
LCS Dup (B184797-BSD1)				Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	47.8	7.5	µg/L	50.0		95.6	40-140	2.54	20	
Acenaphthylene (SIM)	46.6	7.5	µg/L	50.0		93.1	40-140	2.23	20	
Anthracene (SIM)	49.8	5.0	µg/L	50.0		99.5	40-140	2.13	20	
Benzo(a)anthracene (SIM)	48.4	1.2	µg/L	50.0		96.8	40-140	2.35	20	
Benzo(a)pyrene (SIM)	51.9	2.5	µg/L	50.0		104	40-140	2.78	20	
Benzo(b)fluoranthene (SIM)	52.4	1.2	µg/L	50.0		105	40-140	1.97	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.3	40-140	3.54	20	
Benzo(k)fluoranthene (SIM)	51.3	5.0	µg/L	50.0		103	40-140	2.17	20	
Chrysene (SIM)	48.6	5.0	µg/L	50.0		97.3	40-140	2.87	20	
Dibenz(a,h)anthracene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	3.36	20	
Fluoranthene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	3.80	20	
Fluorene (SIM)	48.5	25	µg/L	50.0		97.0	40-140	2.82	20	
Indeno(1,2,3-cd)pyrene (SIM)	49.6	5.0	µg/L	50.0		99.1	40-140	3.33	20	‡
2-Methylnaphthalene (SIM)	46.2	25	µg/L	50.0		92.3	40-140	1.36	20	
Naphthalene (SIM)	45.6	25	µg/L	50.0		91.1	40-140	1.21	20	
Phenanthrene (SIM)	49.0	1.2	µg/L	50.0		98.0	40-140	2.90	20	
Pyrene (SIM)	48.2	25	µg/L	50.0		96.4	40-140	0.208	20	
Surrogate: Nitrobenzene-d5	*98.6*		µg/L	100		98.6	30-130			
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	100		107	30-130			
Surrogate: p-Terphenyl-d14	*86.3*		µg/L	100		86.3	30-130			
Matrix Spike (B184797-MS1)		**Source: 17H0959-02**		Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	47.5	7.5	µg/L	50.0	0.195	94.7	40-140			
Acenaphthylene (SIM)	46.2	7.5	µg/L	50.0	0.0310	92.3	40-140			
Anthracene (SIM)	49.0	5.0	µg/L	50.0	ND	98.0	40-140			
Benzo(a)anthracene (SIM)	47.2	1.2	µg/L	50.0	0.0470	94.4	40-140			
Benzo(a)pyrene (SIM)	50.6	2.5	µg/L	50.0	0.0430	101	40-140			
Benzo(b)fluoranthene (SIM)	50.9	1.2	µg/L	50.0	0.0580	102	40-140			
Benzo(g,h,i)perylene (SIM)	48.2	12	µg/L	50.0	0.0420	96.4	40-140			
Benzo(k)fluoranthene (SIM)	49.5	5.0	µg/L	50.0	0.0190	99.0	40-140			
Chrysene (SIM)	47.2	5.0	µg/L	50.0	0.0550	94.3	40-140			
Dibenz(a,h)anthracene (SIM)	48.6	5.0	µg/L	50.0	0.00800	97.1	40-140			
Fluoranthene (SIM)	48.7	12	µg/L	50.0	0.222	97.0	40-140			
Fluorene (SIM)	48.2	25	µg/L	50.0	0.125	96.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	48.3	5.0	µg/L	50.0	0.0340	96.5	40-140			
2-Methylnaphthalene (SIM)	46.1	25	µg/L	50.0	0.104	92.0	40-140			
Naphthalene (SIM)	46.0	25	µg/L	50.0	0.339	91.3	40-140			
Phenanthrene (SIM)	48.6	1.2	µg/L	50.0	0.483	96.3	40-140			
Pyrene (SIM)	47.8	25	µg/L	50.0	0.194	95.2	40-140			
Surrogate: Nitrobenzene-d5	*107*		µg/L	100		107	30-130			
Surrogate: 2-Fluorobiphenyl	*115*		µg/L	100		115	30-130			
Surrogate: p-Terphenyl-d14	*84.6*		µg/L	100		84.6	30-130			

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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.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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

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

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17H0196

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CHAIN OF CUSTODY 17H0959

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC2-SO-2-1	8/3/16	9:10		X	S	U	X	X	X	X			
02	WS-AOC2-SO-2-2		9:11					X	X	X	X			
03	WS-AOC2-SO-3-1		9:35					X	X	X	X			
04	WS-AOC2-SO-3-2		9:36					X	X	X	X			
05	WS-AOC2-SO-1-1		10:35					X	X	X	X			
06	WS-AOC2-SO-1-2		10:36					X	X	X	X			
07	WS-AOC2-SO-4-1		10:55					X	X	X	X			
08	WS-AOC2-SO-4-2		10:56					X	X	X	X			
09	TRIP BLANK										X			

activate for SPLP PAHs for the following:
WO#17H0196
WS-AOC2-SO-2-1
WS-AOC2-SO-3-1
WS-AOC2-SO-1-1

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC2-SO-3-1 (MS-MSD) only for PCB and PAH!
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:
Shankar Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:56
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature) 3.1°, 4.7	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

8/3/17 1645

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con-test ANALYTICAL LABORATORY
Phone: 413-525-2332 17H0196
Fax: 413-525-6405
Email: info@contestlabs.com

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB										# of Containers
10	WS-AOC2-SO-DUP-45	8/3/17			X	S	U	X										
11	WS-AOC2-SO-DUP-46	8/3/17			X	S	U	X										

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[signature]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 BLF Date 8/3/17 Time 1645

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°C, 4.7°C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? F
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 ID's T Sampler Name T
Project T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? ~~F~~ T On COC? ~~NA~~ T
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-	9	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	18	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/3/17 1645	
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: 17H0959

Laboratory Sample ID(s):

17H0959-01 thru 17H0959-03

Sample Date(s):

08/03/2017

List RCP Methods Used:

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:** **Director of Operations**

Printed Name: **Daren J. Damboragian** **Date:** **08/24/17**

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

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

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

September 5, 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: 17H1163

Enclosed are results of analyses for samples received by the laboratory on August 21, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 9/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1163

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-AOC14-CO-29	17H1163-01	Concrete		SW-846 8082A	
WS-AOC14-CO-30	17H1163-02	Concrete		SW-846 8082A	
WS-AOC14-CO-32	17H1163-03	Concrete		SW-846 8082A	
WS-AOC14-CO-33	17H1163-04	Concrete		SW-846 8082A	
WS-AOC14-CO-34	17H1163-05	Concrete		SW-846 8082A	
WS-AOC14-CO-36	17H1163-06	Concrete		SW-846 8082A	
WS-AOC14-CO-37	17H1163-07	Concrete		SW-846 8082A	
WS-AOC14-SE-34	17H1163-08	Product/Solid		SW-846 8082A	
WS-AOC14-SE-35	17H1163-09	Product/Solid		SW-846 8082A	
WS-AOC14-SE-36	17H1163-10	Product/Solid		SW-846 8082A	
WS-AOC14-SE-37	17H1163-11	Product/Solid		SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

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

B184889-BLK1, B184889-BS1, B184889-BSD1, B184889-MS1, B184889-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:

Tetrachloro-m-xylene

B184889-BSD1

Tetrachloro-m-xylene [2C]

B184889-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

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-29 Sampled: 8/21/2017 13:00

Sample ID: 17H1163-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.1	30-150		8/31/17 6:55
Decachlorobiphenyl [2]	102	30-150		8/31/17 6:55
Tetrachloro-m-xylene [1]	96.0	30-150		8/31/17 6:55
Tetrachloro-m-xylene [2]	111	30-150		8/31/17 6:55

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-30 Sampled: 8/21/2017 13:10

Sample ID: 17H1163-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		8/31/17 7:13
Decachlorobiphenyl [2]	97.6	30-150		8/31/17 7:13
Tetrachloro-m-xylene [1]	90.9	30-150		8/31/17 7:13
Tetrachloro-m-xylene [2]	107	30-150		8/31/17 7:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-32 Sampled: 8/21/2017 13:20

Sample ID: 17H1163-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		8/31/17 7:30
Decachlorobiphenyl [2]	92.5	30-150		8/31/17 7:30
Tetrachloro-m-xylene [1]	87.9	30-150		8/31/17 7:30
Tetrachloro-m-xylene [2]	103	30-150		8/31/17 7:30

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-33 Sampled: 8/21/2017 13:30

Sample ID: 17H1163-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		8/31/17 7:48
Decachlorobiphenyl [2]	90.4	30-150		8/31/17 7:48
Tetrachloro-m-xylene [1]	83.3	30-150		8/31/17 7:48
Tetrachloro-m-xylene [2]	97.4	30-150		8/31/17 7:48

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-34 Sampled: 8/21/2017 13:40

Sample ID: 17H1163-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		8/31/17 8:06
Decachlorobiphenyl [2]	98.9	30-150		8/31/17 8:06
Tetrachloro-m-xylene [1]	93.5	30-150		8/31/17 8:06
Tetrachloro-m-xylene [2]	109	30-150		8/31/17 8:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-36 Sampled: 8/21/2017 13:50

Sample ID: 17H1163-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		8/31/17 8:23
Decachlorobiphenyl [2]	100	30-150		8/31/17 8:23
Tetrachloro-m-xylene [1]	85.8	30-150		8/31/17 8:23
Tetrachloro-m-xylene [2]	103	30-150		8/31/17 8:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-37 Sampled: 8/21/2017 14:00

Sample ID: 17H1163-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		8/31/17 8:41
Decachlorobiphenyl [2]	98.7	30-150		8/31/17 8:41
Tetrachloro-m-xylene [1]	93.5	30-150		8/31/17 8:41
Tetrachloro-m-xylene [2]	110	30-150		8/31/17 8:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-34 Sampled: 8/21/2017 13:45

Sample ID: 17H1163-08

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1248 [1]	0.25	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1254 [2]	0.26	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1260 [2]	0.20	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/2/17 14:54
Decachlorobiphenyl [2]	68.3	30-150		9/2/17 14:54
Tetrachloro-m-xylene [1]	81.7	30-150		9/2/17 14:54
Tetrachloro-m-xylene [2]	78.5	30-150		9/2/17 14:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-35 Sampled: 8/21/2017 13:42

Sample ID: 17H1163-09

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1248 [2]	0.16	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1254 [2]	0.20	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1260 [2]	0.22	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.7	30-150		9/2/17 15:12
Decachlorobiphenyl [2]	82.6	30-150		9/2/17 15:12
Tetrachloro-m-xylene [1]	96.4	30-150		9/2/17 15:12
Tetrachloro-m-xylene [2]	91.5	30-150		9/2/17 15:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-36 Sampled: 8/21/2017 13:50

Sample ID: 17H1163-10

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1248 [1]	0.12	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1254 [2]	0.15	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1260 [2]	0.15	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/2/17 15:30
Decachlorobiphenyl [2]	74.1	30-150		9/2/17 15:30
Tetrachloro-m-xylene [1]	88.7	30-150		9/2/17 15:30
Tetrachloro-m-xylene [2]	86.0	30-150		9/2/17 15:30

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-37 Sampled: 8/21/2017 14:05

Sample ID: 17H1163-11

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1248 [1]	0.18	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1254 [2]	0.21	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1260 [2]	0.28	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		9/2/17 15:48
Decachlorobiphenyl [2]	70.7	30-150		9/2/17 15:48
Tetrachloro-m-xylene [1]	85.7	30-150		9/2/17 15:48
Tetrachloro-m-xylene [2]	82.0	30-150		9/2/17 15:48

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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
17H1163-01 [WS-AOC14-CO-29]	B184889	2.00	10.0	08/24/17
17H1163-02 [WS-AOC14-CO-30]	B184889	2.00	10.0	08/24/17
17H1163-03 [WS-AOC14-CO-32]	B184889	2.00	10.0	08/24/17
17H1163-04 [WS-AOC14-CO-33]	B184889	2.00	10.0	08/24/17
17H1163-05 [WS-AOC14-CO-34]	B184889	2.00	10.0	08/24/17
17H1163-06 [WS-AOC14-CO-36]	B184889	2.00	10.0	08/24/17
17H1163-07 [WS-AOC14-CO-37]	B184889	2.00	10.0	08/24/17
17H1163-08 [WS-AOC14-SE-34]	B184889	2.00	10.0	08/24/17
17H1163-09 [WS-AOC14-SE-35]	B184889	2.00	10.0	08/24/17
17H1163-10 [WS-AOC14-SE-36]	B184889	2.00	10.0	08/24/17
17H1163-11 [WS-AOC14-SE-37]	B184889	2.00	10.0	08/24/17

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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 B184889 - SW-846 3540C												
Blank (B184889-BLK1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	ND	0.10	mg/Kg									R-05
Aroclor-1016 [2C]	ND	0.10	mg/Kg									
Aroclor-1221	ND	0.10	mg/Kg									
Aroclor-1221 [2C]	ND	0.10	mg/Kg									
Aroclor-1232	ND	0.10	mg/Kg									
Aroclor-1232 [2C]	ND	0.10	mg/Kg									
Aroclor-1242	ND	0.10	mg/Kg									
Aroclor-1242 [2C]	ND	0.10	mg/Kg									
Aroclor-1248	ND	0.10	mg/Kg									
Aroclor-1248 [2C]	ND	0.10	mg/Kg									
Aroclor-1254	ND	0.10	mg/Kg									
Aroclor-1254 [2C]	ND	0.10	mg/Kg									
Aroclor-1260	ND	0.10	mg/Kg									
Aroclor-1260 [2C]	ND	0.10	mg/Kg									
Aroclor-1262	ND	0.10	mg/Kg									
Aroclor-1262 [2C]	ND	0.10	mg/Kg									
Aroclor-1268	ND	0.10	mg/Kg									
Aroclor-1268 [2C]	ND	0.10	mg/Kg									
Surrogate: Decachlorobiphenyl	*0.868*		mg/Kg	1.00		86.8		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2		30-150				
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101		30-150				
LCS (B184889-BS1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	0.93	0.10	mg/Kg	1.00		93.4		40-140				R-05
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		110		40-140				
Aroclor-1260	0.85	0.10	mg/Kg	1.00		84.9		40-140				
Aroclor-1260 [2C]	0.95	0.10	mg/Kg	1.00		94.7		40-140				
Surrogate: Decachlorobiphenyl	*0.961*		mg/Kg	1.00		96.1		30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106		30-150				
Surrogate: Tetrachloro-m-xylene	*0.948*		mg/Kg	1.00		94.8		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112		30-150				
LCS Dup (B184889-BSD1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	0.65	0.10	mg/Kg	1.00		65.4		40-140	**35.2**	*	30	R-05
Aroclor-1016 [2C]	0.83	0.10	mg/Kg	1.00		82.6		40-140	28.6		30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		79.6		40-140	6.40		30	
Aroclor-1260 [2C]	0.89	0.10	mg/Kg	1.00		89.3		40-140	5.88		30	
Surrogate: Decachlorobiphenyl	*0.909*		mg/Kg	1.00		90.9		30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101		30-150				
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg	1.00		**15.0**	*	30-150				S-23
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg	1.00		**18.4**	*	30-150				S-23

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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 B184889 - SW-846 3540C										
Matrix Spike (B184889-MS1)		**Source: 17H1163-01**		Prepared: 08/24/17 Analyzed: 08/31/17						
Aroclor-1016	0.86	0.10	mg/Kg	1.00	ND	86.5	40-140			R-05
Aroclor-1016 [2C]	0.82	0.10	mg/Kg	1.00	ND	82.1	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00	ND	68.1	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00	ND	78.0	40-140			
Surrogate: Decachlorobiphenyl	*0.763*		mg/Kg	1.00		76.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.859*		mg/Kg	1.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.819*		mg/Kg	1.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.980*		mg/Kg	1.00		98.0	30-150			
Matrix Spike Dup (B184889-MSD1)		**Source: 17H1163-01**		Prepared: 08/24/17 Analyzed: 08/31/17						
Aroclor-1016	0.89	0.10	mg/Kg	1.00	ND	89.5	40-140	3.45	50	R-05
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00	ND	89.4	40-140	8.43	50	
Aroclor-1260	0.78	0.10	mg/Kg	1.00	ND	78.1	40-140	13.7	50	
Aroclor-1260 [2C]	0.86	0.10	mg/Kg	1.00	ND	86.4	40-140	10.2	50	
Surrogate: Decachlorobiphenyl	*0.869*		mg/Kg	1.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.977*		mg/Kg	1.00		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.869*		mg/Kg	1.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-34

Lab Sample ID: 17H1163-08

Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.23	8.3
Aroclor-1254	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.26	12.2
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.20	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-35

Lab Sample ID: 17H1163-09 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.16	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.20	16.2
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.22	20.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-36

Lab Sample ID: 17H1163-10 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.10	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.15	30.8
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-37

Lab Sample ID: 17H1163-11 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.15	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.21	33.3
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.28	28.6

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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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

17H1163

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

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:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs via Soxhlet										# of Containers / [2] Preservation Code / [3] Container Code
								I										# of Containers
								H										[2] Preservation Code
								A										[3] Container Code
1	WS-AOC14-Co-29	8/21/17	1300		X	O	U	X										
2	WS-AOC14-Co-30		1310					X										
3	WS-AOC14-Co-32		1320					X										
4	WS-AOC14-Co-33		1330					X										
5	WS-AOC14-Co-34		1340					X										
6	WS-AOC14-Co-36		1350					X										
7	WS-AOC14-Co-37		1400					X										
8	WS-AOC14-SE-34		1345			Soil		X										
9	WS-AOC14-SE-35		1347			Soil		X										
10	WS-AOC14-SE-36		1350			Soil		X										

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)	8/21/17	Date/Time: 1500
Received by: (signature)	8/21/17	Date/Time: 1500
Relinquished by: (signature)	8/21/17	Date/Time: 4:40
Received by: (signature)	8/21/17	Date/Time: 1646
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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
SL = Sludge
SOL = Solid
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)
Coirate

[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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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of ____

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:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

PCBs via Soxhlet

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
11	WS-AOC14-SE-37	8/21/17	1405		Y	SOL	U

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	8/21/17	Date/Time: 1500
Received by: (signature)	8/21/17	Date/Time: 1500
Relinquished by: (signature)	8/21/17	Date/Time: 4:40
Received by: (signature)	8/21/17	Date/Time: 1640
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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F: 413-525-6405
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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 8/21/17 Time 1640

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 4.3

Were samples within Temperature? 2-6°C T 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	34
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	7
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: 17H1163

Laboratory Sample ID(s):

17H1163-01 thru 17H1163-11

Sample Date(s):

08/21/2017

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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/05/17**

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

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

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

September 5, 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: 17H1209

Enclosed are results of analyses for samples received by the laboratory on August 22, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 9/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1209

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-AOC14-CO-38	17H1209-01	Product/Solid		SW-846 8082A	
WS-AOC14-CO-39	17H1209-02	Product/Solid		SW-846 8082A	
WS-AOC14-CO-40	17H1209-03	Product/Solid		SW-846 8082A	
WS-AOC14-CO-41	17H1209-04	Product/Solid		SW-846 8082A	
WS-AOC14-SE-38	17H1209-05	Product/Solid		SW-846 8082A	
WS-AOC14-SE-39	17H1209-06	Product/Solid		SW-846 8082A	
WS-AOC14-SE-40	17H1209-07	Product/Solid		SW-846 8082A	
WS-AOC14-SE-41	17H1209-08	Product/Solid		SW-846 8082A	
WS-AOC14-SE-42	17H1209-09	Product/Solid		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.

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H1209-01[WS-AOC14-CO-38], 17H1209-02[WS-AOC14-CO-39], 17H1209-03[WS-AOC14-CO-40], 17H1209-06[WS-AOC14-SE-39], 17H1209-07[WS-AOC14-SE-40], 17H1209-08[WS-AOC14-SE-41]

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

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-38 Sampled: 8/22/2017 09:30

Sample ID: 17H1209-01

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/1/17 11:29
Decachlorobiphenyl [2]	96.6	30-150		9/1/17 11:29
Tetrachloro-m-xylene [1]	99.7	30-150		9/1/17 11:29
Tetrachloro-m-xylene [2]	91.0	30-150		9/1/17 11:29

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-39 Sampled: 8/22/2017 09:40

Sample ID: 17H1209-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		9/1/17 11:41
Decachlorobiphenyl [2]	85.5	30-150		9/1/17 11:41
Tetrachloro-m-xylene [1]	97.9	30-150		9/1/17 11:41
Tetrachloro-m-xylene [2]	95.0	30-150		9/1/17 11:41

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-40 Sampled: 8/22/2017 09:50

Sample ID: 17H1209-03

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		9/1/17 11:53
Decachlorobiphenyl [2]	81.8	30-150		9/1/17 11:53
Tetrachloro-m-xylene [1]	88.8	30-150		9/1/17 11:53
Tetrachloro-m-xylene [2]	91.5	30-150		9/1/17 11:53

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-41 Sampled: 8/22/2017 10:00

Sample ID: 17H1209-04

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		9/1/17 5:49
Decachlorobiphenyl [2]	78.2	30-150		9/1/17 5:49
Tetrachloro-m-xylene [1]	106	30-150		9/1/17 5:49
Tetrachloro-m-xylene [2]	72.9	30-150		9/1/17 5:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-38 Sampled: 8/22/2017 09:35

Sample ID: 17H1209-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1248 [1]	0.10	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1254 [2]	0.13	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1260 [2]	0.17	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.9	30-150		9/1/17 6:07
Decachlorobiphenyl [2]	83.6	30-150		9/1/17 6:07
Tetrachloro-m-xylene [1]	104	30-150		9/1/17 6:07
Tetrachloro-m-xylene [2]	71.2	30-150		9/1/17 6:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-39 Sampled: 8/22/2017 09:45

Sample ID: 17H1209-06

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		9/1/17 12:06
Decachlorobiphenyl [2]	87.2	30-150		9/1/17 12:06
Tetrachloro-m-xylene [1]	93.4	30-150		9/1/17 12:06
Tetrachloro-m-xylene [2]	90.8	30-150		9/1/17 12:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-40 Sampled: 8/22/2017 09:55

Sample ID: 17H1209-07

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		9/1/17 12:18
Decachlorobiphenyl [2]	91.4	30-150		9/1/17 12:18
Tetrachloro-m-xylene [1]	94.7	30-150		9/1/17 12:18
Tetrachloro-m-xylene [2]	95.2	30-150		9/1/17 12:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-41 Sampled: 8/22/2017 10:05

Sample ID: 17H1209-08

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.8	30-150		9/1/17 12:31
Decachlorobiphenyl [2]	83.5	30-150		9/1/17 12:31
Tetrachloro-m-xylene [1]	92.7	30-150		9/1/17 12:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/1/17 12:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-42 Sampled: 8/22/2017 10:10

Sample ID: 17H1209-09

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1248 [2]	0.10	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1254 [1]	0.17	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1260 [1]	0.32	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.5	30-150		9/1/17 7:17
Decachlorobiphenyl [2]	83.9	30-150		9/1/17 7:17
Tetrachloro-m-xylene [1]	103	30-150		9/1/17 7:17
Tetrachloro-m-xylene [2]	70.3	30-150		9/1/17 7:17

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1209-01 [WS-AOC14-CO-38]	B184964	2.00	10.0	08/25/17
17H1209-02 [WS-AOC14-CO-39]	B184964	2.00	10.0	08/25/17
17H1209-03 [WS-AOC14-CO-40]	B184964	2.00	10.0	08/25/17
17H1209-04 [WS-AOC14-CO-41]	B184964	2.00	10.0	08/25/17
17H1209-05 [WS-AOC14-SE-38]	B184964	2.00	10.0	08/25/17
17H1209-06 [WS-AOC14-SE-39]	B184964	2.00	10.0	08/25/17
17H1209-07 [WS-AOC14-SE-40]	B184964	2.00	10.0	08/25/17
17H1209-08 [WS-AOC14-SE-41]	B184964	2.00	10.0	08/25/17
17H1209-09 [WS-AOC14-SE-42]	B184964	2.00	10.0	08/25/17

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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
Batch B184964 - SW-846 3540C										
Blank (B184964-BLK1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.860*		mg/Kg	1.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.746*		mg/Kg	1.00		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.710*		mg/Kg	1.00		71.0	30-150			
LCS (B184964-BS1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		88.3	40-140			
Aroclor-1016 [2C]	0.78	0.10	mg/Kg	1.00		77.7	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.5	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		77.6	40-140			
Surrogate: Decachlorobiphenyl	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.776*		mg/Kg	1.00		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.724*		mg/Kg	1.00		72.4	30-150			
LCS Dup (B184964-BSD1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.72	0.10	mg/Kg	1.00		72.0	40-140	20.3	30	
Aroclor-1016 [2C]	0.63	0.10	mg/Kg	1.00		62.6	40-140	21.5	30	
Aroclor-1260	0.64	0.10	mg/Kg	1.00		64.4	40-140	22.3	30	
Aroclor-1260 [2C]	0.63	0.10	mg/Kg	1.00		62.8	40-140	21.0	30	
Surrogate: Decachlorobiphenyl	*0.702*		mg/Kg	1.00		70.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.678*		mg/Kg	1.00		67.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.835*		mg/Kg	1.00		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.679*		mg/Kg	1.00		67.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184964 - SW-846 3540C										
Matrix Spike (B184964-MS1)		**Source: 17H1209-01**		Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	1.1	1.0	mg/Kg	1.00	ND	111	40-140			
Aroclor-1016 [2C]	0.99	1.0	mg/Kg	1.00	ND	99.4	40-140			
Aroclor-1260	0.78	1.0	mg/Kg	1.00	ND	78.0	40-140			
Aroclor-1260 [2C]	0.78	1.0	mg/Kg	1.00	ND	77.6	40-140			
Surrogate: Decachlorobiphenyl	*0.688*		mg/Kg	1.00		68.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.698*		mg/Kg	1.00		69.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.895*		mg/Kg	1.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Matrix Spike Dup (B184964-MSD1)		**Source: 17H1209-01**		Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	1.2	1.0	mg/Kg	1.00	ND	122	40-140	9.45	50	
Aroclor-1016 [2C]	0.95	1.0	mg/Kg	1.00	ND	95.1	40-140	4.39	50	
Aroclor-1260	0.83	1.0	mg/Kg	1.00	ND	83.1	40-140	6.33	50	
Aroclor-1260 [2C]	0.84	1.0	mg/Kg	1.00	ND	84.1	40-140	8.04	50	
Surrogate: Decachlorobiphenyl	*0.721*		mg/Kg	1.00		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.739*		mg/Kg	1.00		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.973*		mg/Kg	1.00		97.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-38

Lab Sample ID: 17H1209-05

Date(s) Analyzed: 09/01/2017 09/01/2017

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	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-42

Lab Sample ID: 17H1209-09 Date(s) Analyzed: 09/01/2017 09/01/2017

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-1248	1	0.000	0.000	0.000	0.10	
	2	0.000	0.000	0.000	0.10	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.31	3.2

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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.
DL-03	Elevated reporting limit due to matrix.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

17H1209

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http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs via Soxhlet											# of Containers / [2] Preservation Code / [3] Container Code
1	WS-AOC14-Co-38	8/22/17	930		X	O		X											
2	WS-AOC14-Co-39	↓	940		↓	↓		X											
3	WS-AOC14-Co-40		950					X											
4	WS-AOC14-Co-41		1000			✓		X											
5	WS-AOC14-SE-38		935			Soil		X											
6	WS-AOC14-SE-39		945					X											
7	WS-AOC14-SE-40		955					X											
8	WS-AOC14-SE-41		1005					X											
9	WS-AOC14-SE-42	✓	1010		✓	✓		X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[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) ~~[illegible]~~

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	8/22/17	Date/Time: 8/22/17 1500
Received by: (signature)	8/22/17	Date/Time: [illegible]
Relinquished by: (signature)	8/22/17	Date/Time: 415
Received by: (signature)	8/22/17	Date/Time: 1615
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

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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 8/22/17 Time 1615

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 - 3.9
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 ___ Sampler Name ___
Project T ID's ___ Collection Dates/Times ___
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? Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	5
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	4
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: 17H1209

Laboratory Sample ID(s):

17H1209-01 thru 17H1209-09

Sample Date(s):

08/22/2017

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: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/05/17**

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

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