17H1285

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
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									# of Containers	[2] Preservation Code	[3] Container Code
								I										H	A
1	WS-AOC9-Co-76	8/23/17	1230		X	O	U	X											
2	WS-AOC9-Co-77		1235					X											
3	WS-AOC9-~~Co~~ AS-78		1240					X											
4	WS-AOC9-AS-79		1245					X											
5	WS-AOC9-Co-80		1250					X											
6	WS-AOC9-Co-81		1255					X											
7	WS-AOC9-Co-82		1300					X											
8	WS-AOC9-Co-83		1305					X											
9	WS-AOC9-Co-84		1310					X											
10	WS-AOC9-Co-Dup16	↓	—		↓	↓	↓	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) 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) 8/23/17	Date/Time: 1500
Received by: (signature) Tom Mair 8/23/17	Date/Time: 1500
Relinquished by: (signature) Tom Mair 8/23/17	Date/Time: 1845
Received by: (signature) 3.2 8/23/17	Date/Time: 1745
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 #

con-test ANALYTICAL LABORATORY
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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
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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 AIF Date 8/23/17 Time 1845

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 - 3.2

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? 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	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	10
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: 17H1285

Laboratory Sample ID(s):

17H1285-01 thru 17H1285-10

Sample Date(s):

08/23/2017

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:** **09/06/17**

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 11, 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: 17H1432

Enclosed are results of analyses for samples received by the laboratory on August 25, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1432

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-9-SE-85	17H1432-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC-9-SE-87	17H1432-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC-9-SE-88	17H1432-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC-9-SE-90	17H1432-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC-8-SE-23	17H1432-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	17H1432-06	Trip Blank Soil		SW-846 8260C	

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

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1432

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
EB-52	17H1432-07	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

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.

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SW-846 6010C-D

Qualifications:

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Silver
17H1432-01[WS-AOC-9-SE-85]

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
17H1432-07[EB-52], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1016 [2C]
17H1432-07[EB-52], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260
17H1432-07[EB-52], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260 [2C]
17H1432-07[EB-52], B185250-BLK1, B185250-BS1, B185250-BSD1

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
B185016-BS1

Chloromethane
B185016-BS1, B185190-BS1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Chloromethane
B185190-BS1

SW-846 8270D

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:

2-Methylnaphthalene (SIM)
17H1432-07[EB-52], B185602-BLK1, B185602-BS1, B185602-BSD1

Dibenz(a,h)anthracene (SIM)
17H1432-07[EB-52], B185602-BLK1, B185602-BS1, B185602-BSD1

Indeno(1,2,3-cd)pyrene (SIM)
17H1432-07[EB-52], B185602-BLK1, B185602-BS1, B185602-BSD1

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RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate
17H1432-07[EB-52]

Hexachlorobenzene
17H1432-07[EB-52]

Pentachlorophenol
17H1432-07[EB-52]

S-07

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
B185269-BLK1

V-05

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
17H1432-07[EB-52], B185269-BLK1, B185269-BS1, B185269-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene
17H1432-01[WS-AOC-9-SE-85], 17H1432-02[WS-AOC-9-SE-87], 17H1432-03[WS-AOC-9-SE-88], 17H1432-04[WS-AOC-9-SE-90], 17H1432-05[WS-AOC-8-SE-23], 17H1432-07[EB-52], B185269-BLK1, B185269-BS1, B185269-BSD1, B185320-BLK1, B185320-BS1, B185320-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
17H1432-01[WS-AOC-9-SE-85], 17H1432-02[WS-AOC-9-SE-87], 17H1432-03[WS-AOC-9-SE-88], 17H1432-04[WS-AOC-9-SE-90], 17H1432-05[WS-AOC-8-SE-23], B185320-BLK1, B185320-BS1, B185320-BSD1

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

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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

Lisa A. Worthington
Project Manager

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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

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	2.0	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Acrylonitrile	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Benzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Bromobenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Bromodichloromethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Bromoform	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Bromomethane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
2-Butanone (MEK)	ND	0.81	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
n-Butylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
sec-Butylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
tert-Butylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Carbon Disulfide	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Carbon Tetrachloride	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Chlorobenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Chlorodibromomethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Chloroethane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Chloroform	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Chloromethane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
2-Chlorotoluene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
4-Chlorotoluene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2-Dibromoethane (EDB)	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Dibromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2-Dichlorobenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,3-Dichlorobenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,4-Dichlorobenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
trans-1,4-Dichloro-2-butene	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1-Dichloroethane	0.19	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2-Dichloroethane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1-Dichloroethylene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
cis-1,2-Dichloroethylene	0.10	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
trans-1,2-Dichloroethylene	0.041	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,3-Dichloropropane	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
2,2-Dichloropropane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1-Dichloropropene	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
cis-1,3-Dichloropropene	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
trans-1,3-Dichloropropene	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Ethylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Hexachlorobutadiene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
2-Hexanone (MBK)	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Isopropylbenzene (Cumene)	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

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	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Methylene Chloride	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Naphthalene	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
n-Propylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Styrene	0.091	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1,1,2-Tetrachloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Tetrachloroethylene	0.34	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Tetrahydrofuran	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Toluene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2,4-Trichlorobenzene	0.065	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1,1-Trichloroethane	0.39	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1,2-Trichloroethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Trichloroethylene	0.090	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Trichlorofluoromethane (Freon 11)	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2,3-Trichloropropane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,2,4-Trimethylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
1,3,5-Trimethylbenzene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
Vinyl Chloride	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
m+p Xylene	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH
o-Xylene	ND	0.040	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 14:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		9/5/17 14:48
Toluene-d8	100	70-130		9/5/17 14:48
4-Bromofluorobenzene	97.0	70-130		9/5/17 14:48

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

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	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Benzo(b)fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Chrysene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1	V-20	SW-846 8270D	8/31/17	9/5/17 15:16	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Pyrene	0.43	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:16	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	59.1	30-130		9/5/17 15:16
Phenol-d6	60.8	30-130		9/5/17 15:16
Nitrobenzene-d5	61.0	30-130		9/5/17 15:16
2-Fluorobiphenyl	63.5	30-130		9/5/17 15:16
2,4,6-Tribromophenol	63.0	30-130		9/5/17 15:16
p-Terphenyl-d14	83.6	30-130		9/5/17 15:16

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

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	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1260 [1]	1.4	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	10		SW-846 8082A	9/1/17	9/11/17 12:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	123	30-150		9/11/17 12:15
Decachlorobiphenyl [2]	109	30-150		9/11/17 12:15
Tetrachloro-m-xylene [1]	107	30-150		9/11/17 12:15
Tetrachloro-m-xylene [2]	107	30-150		9/11/17 12:15

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	55	mg/Kg dry	5		CTDEP ETPH	8/31/17	9/6/17 1:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	71.2	50-150		9/6/17 1:20

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Barium	39	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Cadmium	0.65	0.28	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Chromium	7.8	0.56	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Copper	350	0.56	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Lead	310	0.84	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:10	TJK
Nickel	11	0.56	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Silver	ND	1.1	mg/Kg dry	2	DL-04	SW-846 6010C-D	8/30/17	8/31/17 16:59	AMP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Vanadium	39	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP
Zinc	720	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:22	AMP

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-85 Sampled: 8/25/2017 13:30

Sample ID: 17H1432-01

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	90.6		% Wt	1		SM 2540G	8/31/17	9/1/17 7:54	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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

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	0.078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Acrylonitrile	ND	0.0047	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Bromomethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Chloromethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,3-Dichloropropane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
cis-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
trans-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

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	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Tetrahydrofuran	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
Vinyl Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/28/17	8/28/17 12:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/28/17 12:42
Toluene-d8	94.0	70-130		8/28/17 12:42
4-Bromofluorobenzene	90.7	70-130		8/28/17 12:42

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

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	8/31/17	9/5/17 15:44	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1	V-20	SW-846 8270D	8/31/17	9/5/17 15:44	BGL
N-Nitrosodiphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 15:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.7	30-130		9/5/17 15:44
Phenol-d6	60.4	30-130		9/5/17 15:44
Nitrobenzene-d5	64.6	30-130		9/5/17 15:44
2-Fluorobiphenyl	62.8	30-130		9/5/17 15:44
2,4,6-Tribromophenol	65.7	30-130		9/5/17 15:44
p-Terphenyl-d14	85.7	30-130		9/5/17 15:44

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

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	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		9/7/17 11:23
Decachlorobiphenyl [2]	95.5	30-150		9/7/17 11:23
Tetrachloro-m-xylene [1]	92.7	30-150		9/7/17 11:23
Tetrachloro-m-xylene [2]	98.4	30-150		9/7/17 11:23

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	8/31/17	9/6/17 1:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	85.8	50-150		9/6/17 1:20

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Barium	48	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Chromium	15	0.55	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Copper	18	0.55	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Lead	2.1	0.83	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:11	TJK
Nickel	9.5	0.55	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Vanadium	19	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP
Zinc	19	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:26	AMP

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-87 Sampled: 8/25/2017 13:40

Sample ID: 17H1432-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	8/31/17	9/1/17 7:54	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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

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	9.9	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Acrylonitrile	ND	0.99	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Benzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Bromobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Bromodichloromethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Bromoform	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Bromomethane	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
2-Butanone (MEK)	ND	4.0	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
n-Butylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
sec-Butylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
tert-Butylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Carbon Disulfide	ND	0.60	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Carbon Tetrachloride	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Chlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Chlorodibromomethane	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Chloroethane	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Chloroform	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Chloromethane	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
2-Chlorotoluene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
4-Chlorotoluene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.99	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2-Dibromoethane (EDB)	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Dibromomethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2-Dichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,3-Dichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,4-Dichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
trans-1,4-Dichloro-2-butene	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1-Dichloroethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2-Dichloroethane	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1-Dichloroethylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
cis-1,2-Dichloroethylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
trans-1,2-Dichloroethylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2-Dichloropropane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,3-Dichloropropane	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
2,2-Dichloropropane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1-Dichloropropene	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
cis-1,3-Dichloropropene	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
trans-1,3-Dichloropropene	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Ethylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Hexachlorobutadiene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
2-Hexanone (MBK)	ND	2.0	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Isopropylbenzene (Cumene)	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

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	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Methylene Chloride	ND	0.99	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	2.0	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Naphthalene	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
n-Propylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Styrene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1,1,2-Tetrachloroethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.099	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Tetrachloroethylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Tetrahydrofuran	ND	2.0	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Toluene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2,3-Trichlorobenzene	ND	0.99	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1,1-Trichloroethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1,2-Trichloroethane	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Trichloroethylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Trichlorofluoromethane (Freon 11)	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2,3-Trichloropropane	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,2,4-Trimethylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
1,3,5-Trimethylbenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
Vinyl Chloride	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
m+p Xylene	ND	0.40	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH
o-Xylene	ND	0.20	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		9/5/17 15:17
Toluene-d8	101	70-130		9/5/17 15:17
4-Bromofluorobenzene	94.2	70-130		9/5/17 15:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

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	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Acenaphthylene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Aniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Benzo(a)anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Benzo(a)pyrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Benzo(b)fluoranthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Benzo(g,h,i)perylene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Benzo(k)fluoranthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Bis(2-chloroethoxy)methane	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Bis(2-chloroethyl)ether	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Bis(2-chloroisopropyl)ether	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Bromophenylphenylether	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Butylbenzylphthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Carbazole	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Chloroaniline	ND	1.6	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Chloro-3-methylphenol	ND	1.6	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2-Chloronaphthalene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2-Chlorophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Chlorophenylphenylether	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Chrysene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Dibenz(a,h)anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Dibenzofuran	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Di-n-butylphthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
3,3-Dichlorobenzidine	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4-Dichlorophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Diethylphthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4-Dimethylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Dimethylphthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4,6-Dinitro-2-methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4-Dinitrophenol	ND	1.6	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4-Dinitrotoluene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,6-Dinitrotoluene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Di-n-octylphthalate	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Fluoranthene	0.45	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Fluorene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Hexachlorobenzene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Hexachlorobutadiene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Hexachlorocyclopentadiene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Hexachloroethane	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Indeno(1,2,3-cd)pyrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Isophorone	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2-Methylnaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
3/4-Methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Naphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2-Nitroaniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
3-Nitroaniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Nitroaniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Nitrobenzene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
4-Nitrophenol	ND	1.6	mg/Kg dry	1	V-20	SW-846 8270D	8/31/17	9/5/17 16:11	BGL
N-Nitrosodiphenylamine	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
N-Nitrosodi-n-propylamine	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Pentachloronitrobenzene	ND	0.80	mg/Kg dry	1	V-16	SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Pentachlorophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Phenanthrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Phenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Pyrene	0.57	0.40	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
Pyridine	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
1,2,4-Trichlorobenzene	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4,5-Trichlorophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL
2,4,6-Trichlorophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.0	30-130		9/5/17 16:11
Phenol-d6	48.0	30-130		9/5/17 16:11
Nitrobenzene-d5	46.0	30-130		9/5/17 16:11
2-Fluorobiphenyl	48.5	30-130		9/5/17 16:11
2,4,6-Tribromophenol	44.4	30-130		9/5/17 16:11
p-Terphenyl-d14	61.9	30-130		9/5/17 16:11

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

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	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1248 [2]	0.31	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1254 [2]	0.21	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1260 [2]	0.24	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.0	30-150		9/7/17 11:36
Decachlorobiphenyl [2]	65.5	30-150		9/7/17 11:36
Tetrachloro-m-xylene [1]	67.6	30-150		9/7/17 11:36
Tetrachloro-m-xylene [2]	71.5	30-150		9/7/17 11:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	520	120	mg/Kg dry	5		CTDEP ETPH	8/31/17	9/6/17 1:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.7	50-150		9/6/17 1:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Arsenic	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Barium	76	5.6	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Beryllium	ND	0.56	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Cadmium	3.1	0.56	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Chromium	110	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Copper	290	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Lead	170	1.7	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Mercury	0.18	0.057	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:13	TJK
Nickel	41	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Selenium	ND	11	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Silver	ND	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Thallium	ND	5.6	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Vanadium	82	2.2	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP
Zinc	340	2.2	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:29	AMP

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-88 Sampled: 8/25/2017 13:50

Sample ID: 17H1432-03

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	8/31/17	9/1/17 7:54	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

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	11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Acrylonitrile	ND	1.1	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Benzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Bromobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Bromodichloromethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Bromoform	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Bromomethane	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
2-Butanone (MEK)	ND	4.4	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
n-Butylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
sec-Butylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
tert-Butylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Carbon Disulfide	ND	0.66	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Carbon Tetrachloride	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Chlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Chlorodibromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Chloroethane	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Chloroform	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Chloromethane	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
2-Chlorotoluene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
4-Chlorotoluene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.1	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2-Dibromoethane (EDB)	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Dibromomethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2-Dichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,3-Dichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,4-Dichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
trans-1,4-Dichloro-2-butene	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1-Dichloroethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2-Dichloroethane	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1-Dichloroethylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
cis-1,2-Dichloroethylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
trans-1,2-Dichloroethylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2-Dichloropropane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,3-Dichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
2,2-Dichloropropane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1-Dichloropropene	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
cis-1,3-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
trans-1,3-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Ethylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Hexachlorobutadiene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
2-Hexanone (MBK)	ND	2.2	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Isopropylbenzene (Cumene)	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

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	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Methylene Chloride	ND	1.1	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	2.2	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Naphthalene	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
n-Propylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Styrene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1,1,2-Tetrachloroethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Tetrachloroethylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Tetrahydrofuran	ND	2.2	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Toluene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2,3-Trichlorobenzene	ND	1.1	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1,1-Trichloroethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1,2-Trichloroethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Trichloroethylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Trichlorofluoromethane (Freon 11)	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2,3-Trichloropropane	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,2,4-Trimethylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
1,3,5-Trimethylbenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
Vinyl Chloride	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
m+p Xylene	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH
o-Xylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 15:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		9/5/17 15:44
Toluene-d8	101	70-130		9/5/17 15:44
4-Bromofluorobenzene	94.8	70-130		9/5/17 15:44

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

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	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Acenaphthylene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Aniline	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Anthracene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Benzo(a)anthracene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Benzo(a)pyrene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Benzo(b)fluoranthene	0.62	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Benzo(g,h,i)perylene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Benzo(k)fluoranthene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Bis(2-chloroethoxy)methane	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Bis(2-chloroethyl)ether	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Bis(2-chloroisopropyl)ether	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Bromophenylphenylether	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Butylbenzylphthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Carbazole	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Chloroaniline	ND	2.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Chloro-3-methylphenol	ND	2.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2-Chloronaphthalene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2-Chlorophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Chlorophenylphenylether	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Chrysene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Dibenz(a,h)anthracene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Dibenzofuran	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Di-n-butylphthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
3,3-Dichlorobenzidine	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4-Dichlorophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Diethylphthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4-Dimethylphenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Dimethylphthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4,6-Dinitro-2-methylphenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4-Dinitrophenol	ND	2.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4-Dinitrotoluene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,6-Dinitrotoluene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Di-n-octylphthalate	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Fluoranthene	0.63	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Fluorene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Hexachlorobenzene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Hexachlorobutadiene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Hexachlorocyclopentadiene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Hexachloroethane	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Indeno(1,2,3-cd)pyrene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Isophorone	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2-Methylnaphthalene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
3/4-Methylphenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Naphthalene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2-Nitroaniline	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
3-Nitroaniline	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Nitroaniline	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Nitrobenzene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2-Nitrophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
4-Nitrophenol	ND	2.0	mg/Kg dry	1	V-20	SW-846 8270D	8/31/17	9/5/17 16:38	BGL
N-Nitrosodiphenylamine	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
N-Nitrosodi-n-propylamine	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Pentachloronitrobenzene	ND	1.0	mg/Kg dry	1	V-16	SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Pentachlorophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Phenanthrene	ND	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Phenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Pyrene	1.1	0.52	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
Pyridine	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
1,2,4,5-Tetrachlorobenzene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
1,2,4-Trichlorobenzene	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4,5-Trichlorophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL
2,4,6-Trichlorophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 16:38	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	59.5	30-130		9/5/17 16:38
Phenol-d6	60.4	30-130		9/5/17 16:38
Nitrobenzene-d5	61.5	30-130		9/5/17 16:38
2-Fluorobiphenyl	61.6	30-130		9/5/17 16:38
2,4,6-Tribromophenol	71.3	30-130		9/5/17 16:38
p-Terphenyl-d14	79.6	30-130		9/5/17 16:38

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

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	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1248 [2]	0.48	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1254 [2]	0.50	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1260 [2]	0.59	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	4		SW-846 8082A	9/1/17	9/7/17 11:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.4	30-150		9/7/17 11:49
Decachlorobiphenyl [2]	67.9	30-150		9/7/17 11:49
Tetrachloro-m-xylene [1]	72.4	30-150		9/7/17 11:49
Tetrachloro-m-xylene [2]	76.7	30-150		9/7/17 11:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	930	150	mg/Kg dry	5		CTDEP ETPH	8/31/17	9/6/17 1:55	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.2	50-150		9/6/17 1:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	7.3	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Arsenic	ND	7.3	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Barium	92	7.3	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Beryllium	ND	0.73	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Cadmium	2.3	0.73	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Chromium	96	1.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Copper	280	1.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Lead	170	2.2	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Mercury	0.16	0.076	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:19	TJK
Nickel	39	1.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Selenium	ND	15	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Silver	ND	1.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Thallium	ND	7.3	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Vanadium	82	2.9	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP
Zinc	350	2.9	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:32	AMP

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-9-SE-90 Sampled: 8/25/2017 14:00

Sample ID: 17H1432-04

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	33.0		% Wt	1		SM 2540G	8/31/17	9/1/17 7:54	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

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	3.8	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Acrylonitrile	ND	0.38	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Benzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Bromobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Bromodichloromethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Bromoform	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Bromomethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
2-Butanone (MEK)	ND	1.5	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
n-Butylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
sec-Butylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
tert-Butylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Carbon Disulfide	ND	0.23	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Carbon Tetrachloride	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Chlorobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Chlorodibromomethane	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Chloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Chloroform	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Chloromethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
2-Chlorotoluene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
4-Chlorotoluene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.38	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2-Dibromoethane (EDB)	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Dibromomethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2-Dichlorobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,3-Dichlorobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,4-Dichlorobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
trans-1,4-Dichloro-2-butene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1-Dichloroethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2-Dichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1-Dichloroethylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
cis-1,2-Dichloroethylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
trans-1,2-Dichloroethylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2-Dichloropropane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,3-Dichloropropane	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
2,2-Dichloropropane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1-Dichloropropene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
cis-1,3-Dichloropropene	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
trans-1,3-Dichloropropene	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Ethylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Hexachlorobutadiene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
2-Hexanone (MBK)	ND	0.76	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Isopropylbenzene (Cumene)	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

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	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Methylene Chloride	ND	0.38	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.76	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Naphthalene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
n-Propylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Styrene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1,1,2-Tetrachloroethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1,2,2-Tetrachloroethane	ND	0.038	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Tetrachloroethylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Tetrahydrofuran	ND	0.76	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Toluene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2,3-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2,4-Trichlorobenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1,1-Trichloroethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1,2-Trichloroethane	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Trichloroethylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Trichlorofluoromethane (Freon 11)	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2,3-Trichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,2,4-Trimethylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
1,3,5-Trimethylbenzene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
Vinyl Chloride	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH
o-Xylene	ND	0.076	mg/Kg dry	1		SW-846 8260C	8/28/17	9/5/17 16:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		9/5/17 16:11
Toluene-d8	105	70-130		9/5/17 16:11
4-Bromofluorobenzene	94.2	70-130		9/5/17 16:11

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: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

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	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Acenaphthylene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Aniline	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Anthracene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Benzo(a)anthracene	1.1	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Benzo(a)pyrene	0.91	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Benzo(b)fluoranthene	1.4	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Benzo(g,h,i)perylene	0.45	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Benzo(k)fluoranthene	0.50	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Bis(2-chloroethoxy)methane	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Bis(2-chloroethyl)ether	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Bis(2-chloroisopropyl)ether	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Bromophenylphenylether	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Butylbenzylphthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Carbazole	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Chloroaniline	ND	0.97	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Chloro-3-methylphenol	ND	0.97	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2-Chloronaphthalene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2-Chlorophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Chlorophenylphenylether	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Chrysene	1.3	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Dibenz(a,h)anthracene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Dibenzofuran	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Di-n-butylphthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
3,3-Dichlorobenzidine	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4-Dichlorophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Diethylphthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4-Dimethylphenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Dimethylphthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4-Dinitrophenol	ND	0.97	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4-Dinitrotoluene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,6-Dinitrotoluene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Di-n-octylphthalate	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Fluoranthene	2.6	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Fluorene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Hexachlorobenzene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Hexachlorobutadiene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Hexachlorocyclopentadiene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Hexachloroethane	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Indeno(1,2,3-cd)pyrene	0.51	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Isophorone	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2-Methylnaphthalene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
3/4-Methylphenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Naphthalene	ND	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2-Nitroaniline	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
3-Nitroaniline	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Nitroaniline	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Nitrobenzene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2-Nitrophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
4-Nitrophenol	ND	0.97	mg/Kg dry	1	V-20	SW-846 8270D	8/31/17	9/5/17 17:06	BGL
N-Nitrosodiphenylamine	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
N-Nitrosodi-n-propylamine	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Pentachloronitrobenzene	ND	0.50	mg/Kg dry	1	V-16	SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Pentachlorophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Phenanthrene	1.5	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Phenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Pyrene	2.8	0.25	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
Pyridine	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
1,2,4-Trichlorobenzene	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4,5-Trichlorophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL
2,4,6-Trichlorophenol	ND	0.50	mg/Kg dry	1		SW-846 8270D	8/31/17	9/5/17 17:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.5	30-130		9/5/17 17:06
Phenol-d6	48.5	30-130		9/5/17 17:06
Nitrobenzene-d5	52.6	30-130		9/5/17 17:06
2-Fluorobiphenyl	48.0	30-130		9/5/17 17:06
2,4,6-Tribromophenol	56.9	30-130		9/5/17 17:06
p-Terphenyl-d14	59.3	30-130		9/5/17 17:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

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	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1254 [2]	0.23	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1260 [1]	0.58	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL
Aroclor-1268 [1]	0.23	0.11	mg/Kg dry	4		SW-846 8082A	9/1/17	9/11/17 12:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	132	30-150		9/11/17 12:33
Decachlorobiphenyl [2]	121	30-150		9/11/17 12:33
Tetrachloro-m-xylene [1]	108	30-150		9/11/17 12:33
Tetrachloro-m-xylene [2]	104	30-150		9/11/17 12:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	740	150	mg/Kg dry	10		CTDEP ETPH	8/31/17	9/6/17 2:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	70.9	50-150		9/6/17 2:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Arsenic	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Barium	70	3.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Beryllium	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Cadmium	0.77	0.35	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Chromium	20	0.70	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Copper	170	0.70	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Lead	330	1.1	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Mercury	0.23	0.036	mg/Kg dry	1		SW-846 7471B	8/30/17	9/5/17 14:20	TJK
Nickel	34	0.70	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Selenium	ND	7.0	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Silver	ND	0.70	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Vanadium	99	1.4	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP
Zinc	570	1.4	mg/Kg dry	1		SW-846 6010C-D	8/30/17	8/31/17 15:36	AMP

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: WS-AOC-8-SE-23 Sampled: 8/25/2017 14:10

Sample ID: 17H1432-05

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	67.7		% Wt	1		SM 2540G	8/31/17	9/1/17 7:54	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: 17H1432

Date Received: 8/25/2017

Field Sample #: Trip Blank Sampled: 8/25/2017 00:00

Sample ID: 17H1432-06

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	8/28/17	8/28/17 13:09	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF

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: 17H1432

Date Received: 8/25/2017

Field Sample #: Trip Blank Sampled: 8/25/2017 00:00

Sample ID: 17H1432-06

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	8/28/17	8/28/17 13:09	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/28/17	8/28/17 13:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		8/28/17 13:09
Toluene-d8	91.5	70-130		8/28/17 13:09
4-Bromofluorobenzene	89.6	70-130		8/28/17 13:09

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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2-Dichloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

Sample Matrix: Equipment Blank Water

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	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/30/17	8/31/17 9:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		8/31/17 9:18
Toluene-d8	101	70-130		8/31/17 9:18
4-Bromofluorobenzene	93.2	70-130		8/31/17 9:18

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

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	8/31/17	9/5/17 17:14	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1	R-05	SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1	R-05	SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1	R-05	SW-846 8270D	8/31/17	9/5/17 17:14	CJM

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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

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
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 17:14	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/31/17	9/5/17 10:16	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.3	15-110		9/5/17 10:16
Phenol-d6	29.4	15-110		9/5/17 10:16
Nitrobenzene-d5	89.2	30-130		9/5/17 10:16
Nitrobenzene-d5	75.1	30-130		9/5/17 17:14
2-Fluorobiphenyl	81.1	30-130		9/5/17 10:16
2-Fluorobiphenyl	71.2	30-130		9/5/17 17:14
2,4,6-Tribromophenol	100	15-110		9/5/17 10:16
p-Terphenyl-d14	67.2	30-130		9/5/17 17:14
p-Terphenyl-d14	103	30-130		9/5/17 10:16

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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

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	R-05	SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.3	30-150		9/1/17 14:46
Decachlorobiphenyl [2]	73.3	30-150		9/1/17 14:46
Tetrachloro-m-xylene [1]	95.3	30-150		9/1/17 14:46
Tetrachloro-m-xylene [2]	91.6	30-150		9/1/17 14:46

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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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52
Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

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	8/28/17	8/29/17 21:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.4	50-150		8/29/17 21:42

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: 17H1432

Date Received: 8/25/2017

Field Sample #: EB-52 Sampled: 8/25/2017 12:15

Sample ID: 17H1432-07

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Barium	ND	50	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/29/17	8/29/17 16:18	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	8/29/17	8/30/17 7:10	MJH

con-test® ANALYTICAL LABORATORY
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
17H1432-01 [WS-AOC-9-SE-85]	B185314	30.0	1.00	08/31/17
17H1432-02 [WS-AOC-9-SE-87]	B185314	30.0	1.00	08/31/17
17H1432-03 [WS-AOC-9-SE-88]	B185314	30.0	1.00	08/31/17
17H1432-04 [WS-AOC-9-SE-90]	B185314	30.0	1.00	08/31/17
17H1432-05 [WS-AOC-8-SE-23]	B185314	30.0	1.00	08/31/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185009	1000	1.00	08/28/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1432-01 [WS-AOC-9-SE-85]	B185306	08/31/17
17H1432-02 [WS-AOC-9-SE-87]	B185306	08/31/17
17H1432-03 [WS-AOC-9-SE-88]	B185306	08/31/17
17H1432-04 [WS-AOC-9-SE-90]	B185306	08/31/17
17H1432-05 [WS-AOC-8-SE-23]	B185306	08/31/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1432-01 [WS-AOC-9-SE-85]	B185233	0.991	50.0	08/30/17
17H1432-02 [WS-AOC-9-SE-87]	B185233	1.00	50.0	08/30/17
17H1432-03 [WS-AOC-9-SE-88]	B185233	1.06	50.0	08/30/17
17H1432-04 [WS-AOC-9-SE-90]	B185233	1.04	50.0	08/30/17
17H1432-05 [WS-AOC-8-SE-23]	B185233	1.05	50.0	08/30/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185091	50.0	50.0	08/29/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B184951	6.00	6.00	08/29/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1432-01 [WS-AOC-9-SE-85]	B185230	0.601	50.0	08/30/17
17H1432-02 [WS-AOC-9-SE-87]	B185230	0.611	50.0	08/30/17
17H1432-03 [WS-AOC-9-SE-88]	B185230	0.628	50.0	08/30/17
17H1432-04 [WS-AOC-9-SE-90]	B185230	0.596	50.0	08/30/17
17H1432-05 [WS-AOC-8-SE-23]	B185230	0.621	50.0	08/30/17

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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
17H1432-01 [WS-AOC-9-SE-85]	B185359	10.1	10.0	09/01/17
17H1432-02 [WS-AOC-9-SE-87]	B185359	10.1	10.0	09/01/17
17H1432-03 [WS-AOC-9-SE-88]	B185359	10.3	10.0	09/01/17
17H1432-04 [WS-AOC-9-SE-90]	B185359	10.1	10.0	09/01/17
17H1432-05 [WS-AOC-8-SE-23]	B185359	10.5	10.0	09/01/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185250	1000	10.0	08/30/17

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17H1432-01 [WS-AOC-9-SE-85]	B185016	7.83	5.74	1	50	08/28/17
17H1432-03 [WS-AOC-9-SE-88]	B185016	4.54	7.62	1	50	08/28/17
17H1432-04 [WS-AOC-9-SE-90]	B185016	6.36	9.26	1	50	08/28/17
17H1432-05 [WS-AOC-8-SE-23]	B185016	7.12	7.30	1	50	08/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1432-02 [WS-AOC-9-SE-87]	B185050	7.07	10.0	08/28/17
17H1432-06 [Trip Blank]	B185050	5.00	10.0	08/28/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185190	5	5.00	08/30/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1432-01 [WS-AOC-9-SE-85]	B185320	30.0	1.00	08/31/17
17H1432-02 [WS-AOC-9-SE-87]	B185320	30.0	1.00	08/31/17
17H1432-03 [WS-AOC-9-SE-88]	B185320	30.0	1.00	08/31/17
17H1432-04 [WS-AOC-9-SE-90]	B185320	30.0	1.00	08/31/17
17H1432-05 [WS-AOC-8-SE-23]	B185320	30.0	1.00	08/31/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185269	1000	1.00	08/31/17

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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 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1432-07 [EB-52]	B185602	1000	1.00	08/31/17

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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 B185016 - SW-846 5035										
Blank (B185016-BLK1)				Prepared: 08/28/17 Analyzed: 09/05/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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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 B185016 - SW-846 5035											
Blank (B185016-BLK1)				Prepared: 08/28/17 Analyzed: 09/05/17							
Tetrachloroethylene	ND	0.050	mg/Kg wet								
Tetrahydrofuran	ND	0.50	mg/Kg wet								
Toluene	ND	0.050	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet								
Trichloroethylene	ND	0.050	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet								
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0275*		mg/Kg wet	0.0250		110		70-130			
Surrogate: Toluene-d8	*0.0253*		mg/Kg wet	0.0250		101		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0231*		mg/Kg wet	0.0250		92.4		70-130			
LCS (B185016-BS1)				Prepared: 08/28/17 Analyzed: 09/05/17							
Acetone	0.125	0.057	mg/Kg wet	0.113		110		70-130			
Acrylonitrile	0.0123	0.0057	mg/Kg wet	0.0113		109		70-130			
Benzene	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130			
Bromobenzene	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			
Bromodichloromethane	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			
Bromoform	0.0117	0.0011	mg/Kg wet	0.0113		104		70-130			
Bromomethane	0.0147	0.0023	mg/Kg wet	0.0113		129		70-130			
2-Butanone (MEK)	0.139	0.023	mg/Kg wet	0.113		123		70-130			
n-Butylbenzene	0.0142	0.0011	mg/Kg wet	0.0113		125		70-130			
sec-Butylbenzene	0.0133	0.0011	mg/Kg wet	0.0113		118		70-130			
tert-Butylbenzene	0.0132	0.0011	mg/Kg wet	0.0113		117		70-130			
Carbon Disulfide	0.140	0.0034	mg/Kg wet	0.113		124		70-130			
Carbon Tetrachloride	0.0131	0.0011	mg/Kg wet	0.0113		116		70-130			
Chlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
Chlorodibromomethane	0.0137	0.00057	mg/Kg wet	0.0113		121		70-130			
Chloroethane	0.0130	0.0023	mg/Kg wet	0.0113		115		70-130			
Chloroform	0.0124	0.0023	mg/Kg wet	0.0113		109		70-130			
Chloromethane	0.0159	0.0023	mg/Kg wet	0.0113		**141**	*	70-130			L-01
2-Chlorotoluene	0.0108	0.0011	mg/Kg wet	0.0113		95.1		70-130			
4-Chlorotoluene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0148	0.0057	mg/Kg wet	0.0113		**131**	*	70-130			L-01
1,2-Dibromoethane (EDB)	0.0127	0.00057	mg/Kg wet	0.0113		112		70-130			
Dibromomethane	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			
1,2-Dichlorobenzene	0.0131	0.0011	mg/Kg wet	0.0113		115		70-130			
1,3-Dichlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130			
1,4-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130			
trans-1,4-Dichloro-2-butene	0.0143	0.0023	mg/Kg wet	0.0113		126		70-130			
Dichlorodifluoromethane (Freon 12)	0.0139	0.0023	mg/Kg wet	0.0113		122		70-130			
1,1-Dichloroethane	0.0137	0.0011	mg/Kg wet	0.0113		121		70-130			
1,2-Dichloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130			
1,1-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115		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 B185016 - SW-846 5035										
LCS (B185016-BS1)				Prepared: 08/28/17 Analyzed: 09/05/17						
cis-1,2-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
trans-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2-Dichloropropane	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichloropropane	0.0123	0.00057	mg/Kg wet	0.0113		108	70-130			
2,2-Dichloropropane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,1-Dichloropropene	0.0134	0.0023	mg/Kg wet	0.0113		118	70-130			
cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130			
trans-1,3-Dichloropropene	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Hexachlorobutadiene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
2-Hexanone (MBK)	0.141	0.011	mg/Kg wet	0.113		124	70-130			
Isopropylbenzene (Cumene)	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0139	0.0011	mg/Kg wet	0.0113		122	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Methylene Chloride	0.0125	0.0057	mg/Kg wet	0.0113		111	70-130			
4-Methyl-2-pentanone (MIBK)	0.131	0.011	mg/Kg wet	0.113		115	70-130			
Naphthalene	0.0133	0.0023	mg/Kg wet	0.0113		117	70-130			
n-Propylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Styrene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,1,2-Tetrachloroethane	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1,2,2-Tetrachloroethane	0.0127	0.00057	mg/Kg wet	0.0113		112	70-130			
Tetrachloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Tetrahydrofuran	0.0123	0.011	mg/Kg wet	0.0113		108	70-130			
Toluene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2,3-Trichlorobenzene	0.0128	0.0057	mg/Kg wet	0.0113		113	70-130			
1,2,4-Trichlorobenzene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,1,1-Trichloroethane	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
1,1,2-Trichloroethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Trichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
Trichlorofluoromethane (Freon 11)	0.0126	0.0023	mg/Kg wet	0.0113		112	70-130			
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg wet	0.0113		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2,4-Trimethylbenzene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
1,3,5-Trimethylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Vinyl Chloride	0.0104	0.0023	mg/Kg wet	0.0113		92.2	70-130			
m+p Xylene	0.0253	0.0023	mg/Kg wet	0.0227		112	70-130			
o-Xylene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0318*		mg/Kg wet	0.0283		112	70-130			
Surrogate: Toluene-d8	*0.0288*		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0274*		mg/Kg wet	0.0283		96.8	70-130			
Batch B185050 - SW-846 5035										
Blank (B185050-BLK1)				Prepared & Analyzed: 08/28/17						
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							

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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 B185050 - SW-846 5035										
Blank (B185050-BLK1)				Prepared & Analyzed: 08/28/17						
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							
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							

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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 B185050 - SW-846 5035										
Blank (B185050-BLK1)				Prepared & Analyzed: 08/28/17						
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	*0.0485*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: Toluene-d8	*0.0468*		mg/Kg wet	0.0500		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0448*		mg/Kg wet	0.0500		89.7	70-130			
LCS (B185050-BS1)				Prepared & Analyzed: 08/28/17						
Acetone	0.143	0.10	mg/Kg wet	0.200		71.7	70-130			
Acrylonitrile	0.0201	0.0060	mg/Kg wet	0.0200		101	70-130			
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
2-Butanone (MEK)	0.163	0.040	mg/Kg wet	0.200		81.4	70-130			
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
sec-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
tert-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
Carbon Disulfide	0.198	0.0060	mg/Kg wet	0.200		98.9	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Chloroethane	0.0191	0.020	mg/Kg wet	0.0200		95.3	70-130			
Chloroform	0.0197	0.0040	mg/Kg wet	0.0200		98.5	70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.3	70-130			
2-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
trans-1,4-Dichloro-2-butene	0.0185	0.0040	mg/Kg wet	0.0200		92.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0226	0.020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloroethylene	0.0194	0.0040	mg/Kg wet	0.0200		97.1	70-130			
cis-1,2-Dichloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0165	0.0020	mg/Kg wet	0.0200		82.3	70-130			
1,1-Dichloropropene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.0200		92.9	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 B185050 - SW-846 5035										
LCS (B185050-BS1)				Prepared & Analyzed: 08/28/17						
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Hexachlorobutadiene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
2-Hexanone (MBK)	0.181	0.020	mg/Kg wet	0.200		90.4	70-130			
Isopropylbenzene (Cumene)	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
p-Isopropyltoluene (p-Cymene)	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0180	0.0040	mg/Kg wet	0.0200		89.9	70-130			
Methylene Chloride	0.0203	0.020	mg/Kg wet	0.0200		102	70-130			
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		99.9	70-130			
Naphthalene	0.0155	0.0040	mg/Kg wet	0.0200		77.6	70-130			
n-Propylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,1,1,2-Tetrachloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,1,2,2-Tetrachloroethane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0211	0.010	mg/Kg wet	0.0200		105	70-130			
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
1,2,3-Trichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.6	70-130			
1,2,4-Trichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.4	70-130			
1,1,1-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,2-Trichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0216	0.010	mg/Kg wet	0.0200		108	70-130			
1,2,3-Trichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
1,3,5-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130			
m+p Xylene	0.0395	0.0040	mg/Kg wet	0.0400		98.6	70-130			
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0488*		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: Toluene-d8	*0.0475*		mg/Kg wet	0.0500		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0485*		mg/Kg wet	0.0500		96.9	70-130			
Batch B185190 - SW-846 5030B										
Blank (B185190-BLK1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							

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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 B185190 - SW-846 5030B										
Blank (B185190-BLK1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	2.0	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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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 B185190 - SW-846 5030B											
Blank (B185190-BLK1)				Prepared: 08/30/17 Analyzed: 08/31/17							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	3.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.5*		µg/L	25.0		106		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*		µg/L	25.0		92.6		70-130			
LCS (B185190-BS1)				Prepared: 08/30/17 Analyzed: 08/31/17							
Acetone	103	10	µg/L	100		103		70-130			
Acrylonitrile	9.91	2.0	µg/L	10.0		99.1		70-130			
Benzene	11.4	0.50	µg/L	10.0		114		70-130			
Bromobenzene	9.98	0.50	µg/L	10.0		99.8		70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130			
Bromoform	8.79	0.50	µg/L	10.0		87.9		70-130			
Bromomethane	11.8	2.0	µg/L	10.0		118		70-130			
2-Butanone (MEK)	109	5.0	µg/L	100		109		70-130			
n-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108		70-130			
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130			
Carbon Disulfide	111	5.0	µg/L	100		111		70-130			
Carbon Tetrachloride	10.3	0.50	µg/L	10.0		103		70-130			
Chlorobenzene	9.88	0.50	µg/L	10.0		98.8		70-130			
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105		70-130			
Chloroethane	11.2	0.50	µg/L	10.0		112		70-130			
Chloroform	10.4	0.50	µg/L	10.0		104		70-130			
Chloromethane	16.2	2.0	µg/L	10.0		**162**	*	70-130			L-01, V-20
2-Chlorotoluene	8.68	0.50	µg/L	10.0		86.8		70-130			
4-Chlorotoluene	9.48	0.50	µg/L	10.0		94.8		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.8	2.0	µg/L	10.0		108		70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100		70-130			
Dibromomethane	10.0	0.50	µg/L	10.0		100		70-130			
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106		70-130			
1,3-Dichlorobenzene	10.3	0.50	µg/L	10.0		103		70-130			
1,4-Dichlorobenzene	9.71	0.50	µg/L	10.0		97.1		70-130			
trans-1,4-Dichloro-2-butene	11.1	2.0	µg/L	10.0		111		70-130			
Dichlorodifluoromethane (Freon 12)	8.05	0.50	µg/L	10.0		80.5		70-130			
1,1-Dichloroethane	11.4	0.50	µg/L	10.0		114		70-130			
1,2-Dichloroethane	10.2	2.0	µg/L	10.0		102		70-130			
1,1-Dichloroethylene	10.4	0.50	µg/L	10.0		104		70-130			
cis-1,2-Dichloroethylene	10.9	0.50	µg/L	10.0		109		70-130			
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130			
1,2-Dichloropropane	10.3	0.50	µg/L	10.0		103		70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103		70-130			
2,2-Dichloropropane	8.43	0.50	µg/L	10.0		84.3		70-130			
1,1-Dichloropropene	11.0	0.50	µg/L	10.0		110		70-130			
cis-1,3-Dichloropropene	9.39	0.50	µg/L	10.0		93.9		70-130			
trans-1,3-Dichloropropene	9.02	0.50	µg/L	10.0		90.2		70-130			
Ethylbenzene	11.0	0.50	µg/L	10.0		110		70-130			
Hexachlorobutadiene	11.4	0.60	µg/L	10.0		114		70-130			
2-Hexanone (MBK)	113	5.0	µg/L	100		113		70-130			
Isopropylbenzene (Cumene)	10.0	0.50	µg/L	10.0		100		70-130			
p-Isopropyltoluene (p-Cymene)	11.1	0.50	µg/L	10.0		111		70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	0.50	µg/L	10.0		108		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 B185190 - SW-846 5030B										
LCS (B185190-BS1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130			
4-Methyl-2-pentanone (MIBK)	108	5.0	µg/L	100		108	70-130			
Naphthalene	10.1	2.0	µg/L	10.0		101	70-130			
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Styrene	9.65	1.0	µg/L	10.0		96.5	70-130			
1,1,1,2-Tetrachloroethane	9.35	0.50	µg/L	10.0		93.5	70-130			
1,1,2,2-Tetrachloroethane	9.97	0.50	µg/L	10.0		99.7	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130			
Toluene	11.1	1.0	µg/L	10.0		111	70-130			
1,2,3-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1-Trichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,1,2-Trichloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Trichlorofluoromethane (Freon 11)	9.99	2.0	µg/L	10.0		99.9	70-130			
1,2,3-Trichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	0.50	µg/L	10.0		101	70-130			
1,2,4-Trimethylbenzene	11.7	0.50	µg/L	10.0		117	70-130			
1,3,5-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
Vinyl Chloride	10.7	1.0	µg/L	10.0		107	70-130			
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.3*		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		96.1	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 B185269 - SW-846 3510C										
Blank (B185269-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Aniline	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	2.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*189*		µg/L	200		94.6	15-110			
Surrogate: Phenol-d6	*177*		µg/L	200		88.6	15-110			
Surrogate: Nitrobenzene-d5	*107*		µg/L	100		107	30-130			
Surrogate: 2-Fluorobiphenyl	*97.6*		µg/L	100		97.6	30-130			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B185269 - SW-846 3510C												
Blank (B185269-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17								
Surrogate: 2,4,6-Tribromophenol	*231*		µg/L	200		**116**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*114*		µg/L	100		114		30-130				
LCS (B185269-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17								
Aniline	42.7	5.0	µg/L	100		42.7		40-140				†
Bis(2-chloroethoxy)methane	68.4	10	µg/L	100		68.4		40-140				
Bis(2-chloroethyl)ether	72.5	10	µg/L	100		72.5		40-140				
Bis(2-chloroisopropyl)ether	59.0	10	µg/L	100		59.0		40-140				
Bis(2-Ethylhexyl)phthalate	82.3	10	µg/L	100		82.3		40-140				
4-Bromophenylphenylether	80.0	10	µg/L	100		80.0		40-140				
Butylbenzylphthalate	78.9	10	µg/L	100		78.9		40-140				
Carbazole	78.7	10	µg/L	100		78.7		40-140				
4-Chloroaniline	69.7	10	µg/L	100		69.7		40-140				†
4-Chloro-3-methylphenol	85.6	10	µg/L	100		85.6		30-130				
2-Chloronaphthalene	60.6	10	µg/L	100		60.6		40-140				
2-Chlorophenol	60.9	10	µg/L	100		60.9		30-130				
4-Chlorophenylphenylether	78.2	10	µg/L	100		78.2		40-140				
Dibenzofuran	73.8	5.0	µg/L	100		73.8		40-140				
Di-n-butylphthalate	82.0	10	µg/L	100		82.0		40-140				
3,3-Dichlorobenzidine	82.1	10	µg/L	100		82.1		40-140				†
2,4-Dichlorophenol	75.6	10	µg/L	100		75.6		30-130				
Diethylphthalate	81.5	10	µg/L	100		81.5		40-140				
2,4-Dimethylphenol	74.6	10	µg/L	100		74.6		30-130				
Dimethylphthalate	78.4	10	µg/L	100		78.4		40-140				
4,6-Dinitro-2-methylphenol	81.2	10	µg/L	100		81.2		30-130				
2,4-Dinitrophenol	68.3	10	µg/L	100		68.3		30-130				
2,4-Dinitrotoluene	75.4	10	µg/L	100		75.4		40-140				
2,6-Dinitrotoluene	78.5	10	µg/L	100		78.5		40-140				
Di-n-octylphthalate	76.6	10	µg/L	100		76.6		40-140				
Hexachlorobenzene	79.2	10	µg/L	100		79.2		40-140				
Hexachlorobutadiene	73.8	10	µg/L	100		73.8		40-140				
Hexachlorocyclopentadiene	39.3	10	µg/L	100		39.3		30-140			V-05	
Hexachloroethane	59.3	10	µg/L	100		59.3		40-140				
Isophorone	75.3	10	µg/L	100		75.3		40-140				
2-Methylphenol	51.6	10	µg/L	100		51.6		30-130				
3/4-Methylphenol	55.0	10	µg/L	100		55.0		30-130				
2-Nitroaniline	79.2	10	µg/L	100		79.2		40-140				
3-Nitroaniline	61.9	10	µg/L	100		61.9		40-140				†
4-Nitroaniline	70.0	10	µg/L	100		70.0		40-140				
Nitrobenzene	67.3	10	µg/L	100		67.3		40-140				
2-Nitrophenol	65.4	10	µg/L	100		65.4		30-130				
4-Nitrophenol	35.2	10	µg/L	100		35.2		10-130				
N-Nitrosodiphenylamine	98.2	10	µg/L	100		98.2		40-140				
N-Nitrosodi-n-propylamine	68.3	10	µg/L	100		68.3		40-140				
Pentachloronitrobenzene	88.6	10	µg/L	100		88.6		40-140			V-16	
Pentachlorophenol	61.2	10	µg/L	100		61.2		30-130				
Phenol	29.0	10	µg/L	100		29.0		20-130				
Pyridine	29.1	5.0	µg/L	100		29.1		10-140				†
1,2,4,5-Tetrachlorobenzene	71.2	10	µg/L	100		71.2		40-140				
1,2,4-Trichlorobenzene	65.9	5.0	µg/L	100		65.9		40-140				
2,4,5-Trichlorophenol	69.2	10	µg/L	100		69.2		30-130				
2,4,6-Trichlorophenol	76.2	10	µg/L	100		76.2		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 B185269 - SW-846 3510C											
LCS (B185269-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17							
Surrogate: 2-Fluorophenol	*82.6*		µg/L	200		41.3	15-110				
Surrogate: Phenol-d6	*62.5*		µg/L	200		31.2	15-110				
Surrogate: Nitrobenzene-d5	*76.0*		µg/L	100		76.0	30-130				
Surrogate: 2-Fluorobiphenyl	*73.8*		µg/L	100		73.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*185*		µg/L	200		92.6	15-110				
Surrogate: p-Terphenyl-d14	*89.2*		µg/L	100		89.2	30-130				
LCS Dup (B185269-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17							
Aniline	44.8	5.0	µg/L	100		44.8	40-140	4.75	50		† ‡
Bis(2-chloroethoxy)methane	71.1	10	µg/L	100		71.1	40-140	3.88	20		
Bis(2-chloroethyl)ether	68.4	10	µg/L	100		68.4	40-140	5.79	20		
Bis(2-chloroisopropyl)ether	60.9	10	µg/L	100		60.9	40-140	3.29	20		
Bis(2-Ethylhexyl)phthalate	88.4	10	µg/L	100		88.4	40-140	7.14	20		
4-Bromophenylphenylether	83.3	10	µg/L	100		83.3	40-140	4.05	20		
Butylbenzylphthalate	83.1	10	µg/L	100		83.1	40-140	5.26	20		
Carbazole	84.5	10	µg/L	100		84.5	40-140	7.12	20		
4-Chloroaniline	69.6	10	µg/L	100		69.6	40-140	0.201	20		†
4-Chloro-3-methylphenol	88.5	10	µg/L	100		88.5	30-130	3.24	20		
2-Chloronaphthalene	59.1	10	µg/L	100		59.1	40-140	2.47	20		
2-Chlorophenol	57.4	10	µg/L	100		57.4	30-130	5.94	20		
4-Chlorophenylphenylether	82.0	10	µg/L	100		82.0	40-140	4.87	20		
Dibenzofuran	78.2	5.0	µg/L	100		78.2	40-140	5.75	20		
Di-n-butylphthalate	89.4	10	µg/L	100		89.4	40-140	8.68	20		
3,3-Dichlorobenzidine	84.4	10	µg/L	100		84.4	40-140	2.76	20		† ‡
2,4-Dichlorophenol	77.5	10	µg/L	100		77.5	30-130	2.51	20		
Diethylphthalate	87.2	10	µg/L	100		87.2	40-140	6.80	20		
2,4-Dimethylphenol	76.0	10	µg/L	100		76.0	30-130	1.93	20		
Dimethylphthalate	80.2	10	µg/L	100		80.2	40-140	2.28	50		
4,6-Dinitro-2-methylphenol	86.4	10	µg/L	100		86.4	30-130	6.21	50		
2,4-Dinitrophenol	68.5	10	µg/L	100		68.5	30-130	0.321	50		
2,4-Dinitrotoluene	80.0	10	µg/L	100		80.0	40-140	5.83	20		
2,6-Dinitrotoluene	82.2	10	µg/L	100		82.2	40-140	4.68	20		
Di-n-octylphthalate	80.8	10	µg/L	100		80.8	40-140	5.25	20		
Hexachlorobenzene	82.9	10	µg/L	100		82.9	40-140	4.63	20		
Hexachlorobutadiene	74.7	10	µg/L	100		74.7	40-140	1.15	20		
Hexachlorocyclopentadiene	41.6	10	µg/L	100		41.6	30-140	5.73	50	V-05	
Hexachloroethane	58.9	10	µg/L	100		58.9	40-140	0.660	50		
Isophorone	79.7	10	µg/L	100		79.7	40-140	5.76	20		
2-Methylphenol	51.6	10	µg/L	100		51.6	30-130	0.0775	20		
3/4-Methylphenol	55.1	10	µg/L	100		55.1	30-130	0.163	20		
2-Nitroaniline	83.9	10	µg/L	100		83.9	40-140	5.74	20		
3-Nitroaniline	62.4	10	µg/L	100		62.4	40-140	0.820	20		†
4-Nitroaniline	77.5	10	µg/L	100		77.5	40-140	10.2	20		
Nitrobenzene	70.9	10	µg/L	100		70.9	40-140	5.19	20		
2-Nitrophenol	67.8	10	µg/L	100		67.8	30-130	3.56	20		
4-Nitrophenol	40.3	10	µg/L	100		40.3	10-130	13.6	50		‡
N-Nitrosodiphenylamine	104	10	µg/L	100		104	40-140	5.79	20		
N-Nitrosodi-n-propylamine	69.8	10	µg/L	100		69.8	40-140	2.24	20		
Pentachloronitrobenzene	96.2	10	µg/L	100		96.2	40-140	8.22	20	V-16	
Pentachlorophenol	62.9	10	µg/L	100		62.9	30-130	2.69	50		
Phenol	26.2	10	µg/L	100		26.2	20-130	10.1	20		
Pyridine	28.5	5.0	µg/L	100		28.5	10-140	2.22	50		†

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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 B185269 - SW-846 3510C										
LCS Dup (B185269-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17						
1,2,4,5-Tetrachlorobenzene	73.9	10	µg/L	100		73.9	40-140	3.79	20	
1,2,4-Trichlorobenzene	65.3	5.0	µg/L	100		65.3	40-140	1.02	20	
2,4,5-Trichlorophenol	75.0	10	µg/L	100		75.0	30-130	8.02	20	
2,4,6-Trichlorophenol	78.2	10	µg/L	100		78.2	30-130	2.58	50	
Surrogate: 2-Fluorophenol	*77.5*		µg/L	200		38.7	15-110			
Surrogate: Phenol-d6	*60.4*		µg/L	200		30.2	15-110			
Surrogate: Nitrobenzene-d5	*81.1*		µg/L	100		81.1	30-130			
Surrogate: 2-Fluorobiphenyl	*77.7*		µg/L	100		77.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*198*		µg/L	200		99.0	15-110			
Surrogate: p-Terphenyl-d14	*93.0*		µg/L	100		93.0	30-130			
Batch B185320 - SW-846 3546										
Blank (B185320-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							

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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 B185320 - SW-846 3546										
Blank (B185320-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*3.04*		mg/Kg wet	6.67		45.5	30-130			
Surrogate: Phenol-d6	*3.41*		mg/Kg wet	6.67		51.2	30-130			
Surrogate: Nitrobenzene-d5	*1.61*		mg/Kg wet	3.33		48.2	30-130			
Surrogate: 2-Fluorobiphenyl	*1.89*		mg/Kg wet	3.33		56.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.40*		mg/Kg wet	6.67		96.0	30-130			
Surrogate: p-Terphenyl-d14	*3.17*		mg/Kg wet	3.33		95.1	30-130			
LCS (B185320-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Acenaphthylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Aniline	0.740	0.34	mg/Kg wet	1.67		44.4	40-140			†
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Bis(2-chloroethyl)ether	0.963	0.34	mg/Kg wet	1.67		57.8	40-140			
Bis(2-chloroisopropyl)ether	1.04	0.34	mg/Kg wet	1.67		62.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
4-Bromophenylphenylether	1.41	0.34	mg/Kg wet	1.67		84.7	40-140			
Butylbenzylphthalate	1.31	0.34	mg/Kg wet	1.67		78.4	40-140			
Carbazole	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
4-Chloroaniline	0.784	0.66	mg/Kg wet	1.67		47.0	40-140			†
4-Chloro-3-methylphenol	1.30	0.66	mg/Kg wet	1.67		78.2	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 B185320 - SW-846 3546											
LCS (B185320-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17							
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.2	40-140				
2-Chlorophenol	1.00	0.34	mg/Kg wet	1.67		60.2	30-130				
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.9	40-140				
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140				
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140				
Dibenzofuran	1.20	0.34	mg/Kg wet	1.67		72.0	40-140				
Di-n-butylphthalate	1.30	0.34	mg/Kg wet	1.67		78.0	40-140				
3,3-Dichlorobenzidine	1.25	0.17	mg/Kg wet	1.67		75.2	40-140				†
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130				
Diethylphthalate	1.32	0.34	mg/Kg wet	1.67		79.5	40-140				
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.6	30-130				
Dimethylphthalate	1.30	0.34	mg/Kg wet	1.67		78.2	40-140				
4,6-Dinitro-2-methylphenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130				
2,4-Dinitrophenol	1.14	0.66	mg/Kg wet	1.67		68.6	30-130				
2,4-Dinitrotoluene	1.38	0.34	mg/Kg wet	1.67		82.9	40-140				
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140				
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8	40-140				
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140				
Fluorene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140				
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.1	40-140				
Hexachlorobutadiene	0.979	0.34	mg/Kg wet	1.67		58.8	40-140				
Hexachlorocyclopentadiene	0.854	0.34	mg/Kg wet	1.67		51.2	30-140				
Hexachloroethane	0.836	0.34	mg/Kg wet	1.67		50.2	40-140				
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140				
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.2	40-140				
2-Methylnaphthalene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140				
2-Methylphenol	1.02	0.34	mg/Kg wet	1.67		61.0	30-130				
3/4-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130				
Naphthalene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140				
2-Nitroaniline	1.40	0.34	mg/Kg wet	1.67		83.8	40-140				
3-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				†
4-Nitroaniline	1.26	0.34	mg/Kg wet	1.67		75.4	40-140				
Nitrobenzene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140				
2-Nitrophenol	1.04	0.34	mg/Kg wet	1.67		62.3	30-130				
4-Nitrophenol	1.74	0.66	mg/Kg wet	1.67		104	10-130			V-20	
N-Nitrosodiphenylamine	1.62	0.34	mg/Kg wet	1.67		97.1	40-140				
N-Nitrosodi-n-propylamine	1.09	0.34	mg/Kg wet	1.67		65.6	40-140				
Pentachloronitrobenzene	1.48	0.34	mg/Kg wet	1.67		88.6	40-140			V-16	
Pentachlorophenol	1.18	0.34	mg/Kg wet	1.67		70.6	30-130				
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140				
Phenol	1.14	0.34	mg/Kg wet	1.67		68.3	20-130				
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140				
Pyridine	0.543	0.34	mg/Kg wet	1.67		32.6	10-140				†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		65.1	40-140				
1,2,4-Trichlorobenzene	1.03	0.34	mg/Kg wet	1.67		62.0	40-140				
2,4,5-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.7	30-130				
2,4,6-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.9	30-130				
Surrogate: 2-Fluorophenol	*4.16*		mg/Kg wet	6.67		62.4	30-130				
Surrogate: Phenol-d6	*4.79*		mg/Kg wet	6.67		71.8	30-130				
Surrogate: Nitrobenzene-d5	*2.17*		mg/Kg wet	3.33		65.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.50*		mg/Kg wet	3.33		75.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.02*		mg/Kg wet	6.67		105	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 B185320 - SW-846 3546										
LCS (B185320-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.8	30-130			
LCS Dup (B185320-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	7.36	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	4.58	30	
Aniline	0.701	0.34	mg/Kg wet	1.67		42.0	40-140	5.46	50	† ‡
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	2.16	30	
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	1.90	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	2.35	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	1.57	30	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	1.85	30	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	3.97	30	
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.6	40-140	1.92	30	
Bis(2-chloroethyl)ether	0.930	0.34	mg/Kg wet	1.67		55.8	40-140	3.49	30	
Bis(2-chloroisopropyl)ether	1.01	0.34	mg/Kg wet	1.67		60.4	40-140	2.87	30	
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	2.10	30	
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.1	40-140	5.60	30	
Butylbenzylphthalate	1.31	0.34	mg/Kg wet	1.67		78.4	40-140	0.00	30	
Carbazole	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	4.76	30	
4-Chloroaniline	0.740	0.66	mg/Kg wet	1.67		44.4	40-140	5.77	30	†
4-Chloro-3-methylphenol	1.33	0.66	mg/Kg wet	1.67		79.9	30-130	2.10	30	
2-Chloronaphthalene	1.08	0.34	mg/Kg wet	1.67		65.0	40-140	3.42	30	
2-Chlorophenol	0.960	0.34	mg/Kg wet	1.67		57.6	30-130	4.41	30	
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	2.45	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	1.67	30	
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	1.40	30	
Dibenzofuran	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	4.26	30	
Di-n-butylphthalate	1.24	0.34	mg/Kg wet	1.67		74.5	40-140	4.67	30	
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		73.9	40-140	1.69	30	† ‡
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.5	30-130	0.542	30	
Diethylphthalate	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	5.03	30	
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.3	30-130	0.378	30	
Dimethylphthalate	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	4.02	50	
4,6-Dinitro-2-methylphenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	5.69	50	
2,4-Dinitrophenol	1.01	0.66	mg/Kg wet	1.67		60.7	30-130	12.3	50	
2,4-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		79.5	40-140	4.14	30	
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	3.79	30	
Di-n-octylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	1.24	30	
Fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	6.27	30	
Fluorene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140	3.30	30	
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.3	40-140	5.55	30	
Hexachlorobutadiene	0.988	0.34	mg/Kg wet	1.67		59.3	40-140	0.881	30	
Hexachlorocyclopentadiene	0.824	0.34	mg/Kg wet	1.67		49.4	30-140	3.58	50	
Hexachloroethane	0.783	0.34	mg/Kg wet	1.67		47.0	40-140	6.50	50	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140	3.02	50	
Isophorone	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	1.03	30	
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	0.692	30	
2-Methylphenol	1.00	0.34	mg/Kg wet	1.67		60.2	30-130	1.32	30	
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130	2.00	30	
Naphthalene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140	0.283	30	
2-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.1	40-140	4.54	30	
3-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	4.88	30	†

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185320 - SW-846 3546											
LCS Dup (B185320-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17							
4-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		71.7	40-140	4.95	30		
Nitrobenzene	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	2.13	30		
2-Nitrophenol	1.03	0.34	mg/Kg wet	1.67		62.1	30-130	0.322	30		
4-Nitrophenol	1.68	0.66	mg/Kg wet	1.67		100	10-130	3.60	50	V-20	‡
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.6	40-140	6.86	30		
N-Nitrosodi-n-propylamine	1.05	0.34	mg/Kg wet	1.67		62.9	40-140	4.30	30		
Pentachloronitrobenzene	1.46	0.34	mg/Kg wet	1.67		87.8	40-140	0.952	30	V-16	
Pentachlorophenol	1.11	0.34	mg/Kg wet	1.67		66.9	30-130	5.36	50		
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	3.14	30		
Phenol	1.09	0.34	mg/Kg wet	1.67		65.4	20-130	4.34	30		
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	1.28	30		
Pyridine	0.517	0.34	mg/Kg wet	1.67		31.0	10-140	4.78	50		†
1,2,4,5-Tetrachlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.27	30		
1,2,4-Trichlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140	3.11	30		
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.7	30-130	2.62	30		
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130	2.89	50		
Surrogate: 2-Fluorophenol	*3.94*		mg/Kg wet	6.67		59.1	30-130				
Surrogate: Phenol-d6	*4.56*		mg/Kg wet	6.67		68.4	30-130				
Surrogate: Nitrobenzene-d5	*2.20*		mg/Kg wet	3.33		66.0	30-130				
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.86*		mg/Kg wet	6.67		103	30-130				
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg wet	3.33		88.1	30-130				
Batch B185602 - SW-846 3510C											
Blank (B185602-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17							
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							R-05	
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							R-05	
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							R-05	
Naphthalene (SIM)	ND	1.0	µg/L								
Phenanthrene (SIM)	ND	0.050	µg/L								
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*90.2*		µg/L	100		90.2	30-130				
Surrogate: 2-Fluorobiphenyl	*84.7*		µg/L	100		84.7	30-130				
Surrogate: p-Terphenyl-d14	*77.3*		µg/L	100		77.3	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185602 - SW-846 3510C											
LCS (B185602-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17							
Acenaphthene (SIM)	75.3	7.5	µg/L	100		75.3	40-140				
Acenaphthylene (SIM)	73.4	7.5	µg/L	100		73.4	40-140				
Anthracene (SIM)	80.9	5.0	µg/L	100		80.9	40-140				
Benzo(a)anthracene (SIM)	79.7	1.2	µg/L	100		79.7	40-140				
Benzo(a)pyrene (SIM)	85.7	2.5	µg/L	100		85.7	40-140				
Benzo(b)fluoranthene (SIM)	84.8	1.2	µg/L	100		84.8	40-140				
Benzo(g,h,i)perylene (SIM)	83.1	12	µg/L	100		83.1	40-140				
Benzo(k)fluoranthene (SIM)	82.6	5.0	µg/L	100		82.6	40-140				
Chrysene (SIM)	79.1	5.0	µg/L	100		79.1	40-140				
Dibenz(a,h)anthracene (SIM)	83.6	5.0	µg/L	100		83.6	40-140			R-05	
Fluoranthene (SIM)	81.6	12	µg/L	100		81.6	40-140				
Fluorene (SIM)	78.0	25	µg/L	100		78.0	40-140				
Indeno(1,2,3-cd)pyrene (SIM)	83.8	5.0	µg/L	100		83.8	40-140			R-05	
2-Methylnaphthalene (SIM)	68.5	25	µg/L	100		68.5	40-140			R-05	
Naphthalene (SIM)	62.0	25	µg/L	100		62.0	40-140				
Phenanthrene (SIM)	79.4	1.2	µg/L	100		79.4	40-140				
Pyrene (SIM)	78.8	25	µg/L	100		78.8	40-140				
Surrogate: Nitrobenzene-d5	*66.2*		µg/L	100		66.2	30-130				
Surrogate: 2-Fluorobiphenyl	*78.3*		µg/L	100		78.3	30-130				
Surrogate: p-Terphenyl-d14	*66.9*		µg/L	100		66.9	30-130				
LCS Dup (B185602-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17							
Acenaphthene (SIM)	91.5	7.5	µg/L	100		91.5	40-140	19.4	20		
Acenaphthylene (SIM)	89.5	7.5	µg/L	100		89.5	40-140	19.8	20		
Anthracene (SIM)	98.3	5.0	µg/L	100		98.3	40-140	19.4	20		
Benzo(a)anthracene (SIM)	96.8	1.2	µg/L	100		96.8	40-140	19.4	20		
Benzo(a)pyrene (SIM)	105	2.5	µg/L	100		105	40-140	20.0	20		
Benzo(b)fluoranthene (SIM)	103	1.2	µg/L	100		103	40-140	19.3	20		
Benzo(g,h,i)perylene (SIM)	101	12	µg/L	100		101	40-140	19.6	20		
Benzo(k)fluoranthene (SIM)	100	5.0	µg/L	100		100	40-140	19.5	20		
Chrysene (SIM)	96.0	5.0	µg/L	100		96.0	40-140	19.4	20		
Dibenz(a,h)anthracene (SIM)	102	5.0	µg/L	100		102	40-140	**20.1** *	20	R-05	
Fluoranthene (SIM)	98.0	12	µg/L	100		98.0	40-140	18.2	20		
Fluorene (SIM)	94.1	25	µg/L	100		94.1	40-140	18.8	20		
Indeno(1,2,3-cd)pyrene (SIM)	103	5.0	µg/L	100		103	40-140	**20.3** *	20	R-05	‡
2-Methylnaphthalene (SIM)	84.3	25	µg/L	100		84.3	40-140	**20.7** *	20	R-05	
Naphthalene (SIM)	75.8	25	µg/L	100		75.8	40-140	20.0	20		
Phenanthrene (SIM)	95.9	1.2	µg/L	100		95.9	40-140	18.9	20		
Pyrene (SIM)	95.8	25	µg/L	100		95.8	40-140	19.4	20		
Surrogate: Nitrobenzene-d5	*81.8*		µg/L	100		81.8	30-130				
Surrogate: 2-Fluorobiphenyl	*93.8*		µg/L	100		93.8	30-130				
Surrogate: p-Terphenyl-d14	*79.9*		µg/L	100		79.9	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 B185250 - SW-846 3510C											
Blank (B185250-BLK1)				Prepared: 08/30/17 Analyzed: 09/01/17							
Aroclor-1016	ND	0.20	µg/L								R-05
Aroclor-1016 [2C]	ND	0.20	µg/L								R-05
Aroclor-1221	ND	0.20	µg/L								
Aroclor-1221 [2C]	ND	0.20	µg/L								
Aroclor-1232	ND	0.20	µg/L								
Aroclor-1232 [2C]	ND	0.20	µg/L								
Aroclor-1242	ND	0.20	µg/L								
Aroclor-1242 [2C]	ND	0.20	µg/L								
Aroclor-1248	ND	0.20	µg/L								
Aroclor-1248 [2C]	ND	0.20	µg/L								
Aroclor-1254	ND	0.20	µg/L								
Aroclor-1254 [2C]	ND	0.20	µg/L								
Aroclor-1260	ND	0.20	µg/L								R-05
Aroclor-1260 [2C]	ND	0.20	µg/L								R-05
Aroclor-1262	ND	0.20	µg/L								
Aroclor-1262 [2C]	ND	0.20	µg/L								
Aroclor-1268	ND	0.20	µg/L								
Aroclor-1268 [2C]	ND	0.20	µg/L								
Surrogate: Decachlorobiphenyl	*2.03*		µg/L	2.00		101	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.0	30-150				
Surrogate: Tetrachloro-m-xylene	*1.66*		µg/L	2.00		83.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.61*		µg/L	2.00		80.4	30-150				
LCS (B185250-BS1)				Prepared: 08/30/17 Analyzed: 09/01/17							
Aroclor-1016	0.46	0.20	µg/L	0.500		92.6	40-140				R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.6	40-140				R-05
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140				R-05
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.3	40-140				R-05
Surrogate: Decachlorobiphenyl	*2.12*		µg/L	2.00		106	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/L	2.00		91.8	30-150				
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.7	30-150				
LCS Dup (B185250-BSD1)				Prepared: 08/30/17 Analyzed: 09/01/17							
Aroclor-1016	0.36	0.20	µg/L	0.500		71.7	40-140	**25.5**	*	20	R-05
Aroclor-1016 [2C]	0.38	0.20	µg/L	0.500		76.3	40-140	**23.5**	*	20	R-05
Aroclor-1260	0.34	0.20	µg/L	0.500		68.6	40-140	**27.2**	*	20	R-05
Aroclor-1260 [2C]	0.34	0.20	µg/L	0.500		67.3	40-140	**24.8**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.32*		µg/L	2.00		66.0	30-150				
Surrogate: Tetrachloro-m-xylene	*1.31*		µg/L	2.00		65.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.30*		µg/L	2.00		65.1	30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185359 - SW-846 3540C										
Blank (B185359-BLK1)				Prepared: 09/01/17 Analyzed: 09/07/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
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	*0.241*		mg/Kg wet	0.200		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.4	30-150			
LCS (B185359-BS1)				Prepared: 09/01/17 Analyzed: 09/07/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.1	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.7	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140			
Surrogate: Decachlorobiphenyl	*0.242*		mg/Kg wet	0.200		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.9	30-150			
LCS Dup (B185359-BSD1)				Prepared: 09/01/17 Analyzed: 09/07/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.2	40-140	4.01	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.1	40-140	0.179	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.0	40-140	1.82	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	0.745	30	
Surrogate: Decachlorobiphenyl	*0.233*		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg wet	0.200		93.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		92.9	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 B185009 - SW-846 3510C										
Blank (B185009-BLK1)				Prepared: 08/28/17 Analyzed: 08/29/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.106*		mg/L	0.100		106	50-150			
LCS (B185009-BS1)				Prepared: 08/28/17 Analyzed: 08/29/17						
CT ETPH	0.779	0.075	mg/L	1.00		77.9	60-120			
Surrogate: o-Terphenyl	*0.101*		mg/L	0.100		101	50-150			
LCS Dup (B185009-BSD1)				Prepared: 08/28/17 Analyzed: 08/29/17						
CT ETPH	0.898	0.075	mg/L	1.00		89.8	60-120	14.2	30	
Surrogate: o-Terphenyl	*0.106*		mg/L	0.100		106	50-150			
Batch B185314 - SW-846 3546										
Blank (B185314-BLK1)				Prepared: 08/31/17 Analyzed: 09/05/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.20*		mg/Kg wet	3.33		95.9	50-150			
LCS (B185314-BS1)				Prepared: 08/31/17 Analyzed: 09/05/17						
CT ETPH	25.9	10	mg/Kg wet	33.3		77.6	60-120			
Surrogate: o-Terphenyl	*3.22*		mg/Kg wet	3.33		96.7	50-150			
LCS Dup (B185314-BSD1)				Prepared: 08/31/17 Analyzed: 09/05/17						
CT ETPH	26.3	10	mg/Kg wet	33.3		79.0	60-120	1.82	30	
Surrogate: o-Terphenyl	*3.20*		mg/Kg wet	3.33		96.0	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184951 - SW-846 7470A Prep										
Blank (B184951-BLK1)				Prepared & Analyzed: 08/29/17						
Mercury	ND	0.00010	mg/L							
LCS (B184951-BS1)				Prepared & Analyzed: 08/29/17						
Mercury	0.00196	0.00010	mg/L	0.00200		98.1	80-120			
LCS Dup (B184951-BSD1)				Prepared & Analyzed: 08/29/17						
Mercury	0.00195	0.00010	mg/L	0.00200		97.5	80-120	0.608	20	
Batch B185091 - SW-846 3005A										
Blank (B185091-BLK1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B185091-BS1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Antimony	508	10	µg/L	500		102	80-120			
Arsenic	525	4.0	µg/L	500		105	80-120			
Barium	494	100	µg/L	500		98.9	80-120			
Beryllium	523	4.0	µg/L	500		105	80-120			
Cadmium	511	5.0	µg/L	500		102	80-120			
Chromium	499	10	µg/L	500		99.8	80-120			
Copper	990	50	µg/L	1000		99.0	80-120			
Lead	512	10	µg/L	500		102	80-120			
Nickel	499	50	µg/L	500		99.9	80-120			
Selenium	549	50	µg/L	500		110	80-120			
Silver	467	5.0	µg/L	500		93.4	80-120			
Thallium	473	2.0	µg/L	500		94.5	80-120			
Vanadium	504	50	µg/L	500		101	80-120			
Zinc	1100	100	µg/L	1000		110	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185091 - SW-846 3005A										
LCS Dup (B185091-BSD1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Antimony	518	10	µg/L	500		104	80-120	1.96	20	
Arsenic	537	4.0	µg/L	500		107	80-120	2.26	20	
Barium	505	100	µg/L	500		101	80-120	2.01	20	
Beryllium	514	4.0	µg/L	500		103	80-120	1.75	20	
Cadmium	523	5.0	µg/L	500		105	80-120	2.36	20	
Chromium	503	10	µg/L	500		101	80-120	0.787	20	
Copper	1010	50	µg/L	1000		101	80-120	1.80	20	
Lead	514	10	µg/L	500		103	80-120	0.401	20	
Nickel	502	50	µg/L	500		100	80-120	0.594	20	
Selenium	553	50	µg/L	500		111	80-120	0.741	20	
Silver	478	5.0	µg/L	500		95.6	80-120	2.31	20	
Thallium	476	2.0	µg/L	500		95.2	80-120	0.670	20	
Vanadium	509	50	µg/L	500		102	80-120	0.854	20	
Zinc	1150	100	µg/L	1000		115	80-120	4.10	20	
Batch B185230 - SW-846 7471										
Blank (B185230-BLK1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B185230-BS1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	9.79	2.0	mg/Kg wet	9.36		105	73.7-126.3			
LCS Dup (B185230-BSD1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Mercury	11.2	1.9	mg/Kg wet	9.36		119	73.7-126.3	13.2	30	
Batch B185233 - SW-846 3050B										
Blank (B185233-BLK1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185233 - SW-846 3050B										
LCS (B185233-BS1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Antimony	40.4	5.0	mg/Kg wet	146		27.6	0-210.3			
Arsenic	134	5.0	mg/Kg wet	157		85.6	77.8-122.1			
Barium	286	5.0	mg/Kg wet	339		84.4	82-117.4			
Beryllium	51.5	0.50	mg/Kg wet	58.3		88.4	82.3-117.7			
Cadmium	181	0.50	mg/Kg wet	216		83.8	81.9-118.2			
Chromium	74.4	1.0	mg/Kg wet	88.9		83.7	78.7-120.6			
Copper	165	1.0	mg/Kg wet	184		89.8	80.4-119.6			
Lead	96.6	1.5	mg/Kg wet	94.3		102	82.4-117.8			
Nickel	128	1.0	mg/Kg wet	154		82.8	82.2-117.8			
Selenium	180	10	mg/Kg wet	207		86.7	77.1-122.3			
Silver	37.0	1.0	mg/Kg wet	43.8		84.5	74.3-125.4			
Thallium	140	5.0	mg/Kg wet	167		83.7	78.2-121.6			
Vanadium	77.8	2.0	mg/Kg wet	100		77.8	64.8-135.2			
Zinc	177	2.0	mg/Kg wet	209		84.5	79.7-120.8			
LCS Dup (B185233-BSD1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Antimony	44.4	5.0	mg/Kg wet	146		30.4	0-210.3	9.55	30	
Arsenic	147	5.0	mg/Kg wet	157		93.7	77.8-122.1	9.06	30	
Barium	322	5.0	mg/Kg wet	339		95.0	82-117.4	11.8	30	
Beryllium	57.1	0.50	mg/Kg wet	58.3		98.0	82.3-117.7	10.3	30	
Cadmium	194	0.50	mg/Kg wet	216		89.9	81.9-118.2	7.05	30	
Chromium	84.3	1.0	mg/Kg wet	88.9		94.9	78.7-120.6	12.4	30	
Copper	186	1.0	mg/Kg wet	184		101	80.4-119.6	11.7	30	
Lead	93.8	1.5	mg/Kg wet	94.3		99.4	82.4-117.8	2.97	30	
Nickel	140	1.0	mg/Kg wet	154		91.1	82.2-117.8	9.54	30	
Selenium	189	10	mg/Kg wet	207		91.1	77.1-122.3	4.94	30	
Silver	41.3	1.0	mg/Kg wet	43.8		94.3	74.3-125.4	11.0	30	
Thallium	154	5.0	mg/Kg wet	167		91.9	78.2-121.6	9.40	30	
Vanadium	85.0	2.0	mg/Kg wet	100		85.0	64.8-135.2	8.83	30	
Zinc	194	2.0	mg/Kg wet	209		92.6	79.7-120.8	9.08	30	
MRL Check (B185233-MRL1)				Prepared: 08/30/17 Analyzed: 08/31/17						
Lead	0.713	0.73	mg/Kg wet	0.725		98.4	80-120			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SE-85

Lab Sample ID: 17H1432-01

Date(s) Analyzed: 09/11/2017 09/11/2017

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	1.4	
	2	0.000	-0.030	0.030	1.3	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SE-88

Lab Sample ID: 17H1432-03 Date(s) Analyzed: 09/07/2017 09/07/2017

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	0.26	
	2	0.000	-0.030	0.030	0.31	17.5
Aroclor-1254	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.21	10.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.24	23.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SE-90

Lab Sample ID: 17H1432-04 Date(s) Analyzed: 09/07/2017 09/07/2017

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	0.43	
	2	0.000	-0.030	0.030	0.48	11.0
Aroclor-1254	1	0.000	-0.030	0.030	0.36	
	2	0.000	-0.030	0.030	0.50	32.6
Aroclor-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.59	16.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-8-SE-23

Lab Sample ID: 17H1432-05 Date(s) Analyzed: 09/11/2017 09/11/2017

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	0.21	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1260	1	0.000	-0.030	0.030	0.58	
	2	0.000	-0.030	0.030	0.54	7.1
Aroclor-1268	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.22	8.7

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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-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY

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 8260C in Soil	
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	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	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	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	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
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
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,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
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH

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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 Water	
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

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

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

17H1432

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

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 (Soxhlet)	SVOCs	ETPH	RSR-15	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC-9-SE-85	8/25/17	1330		X	S	U	X	X	X	X	X			
2	WS-AOC-9-SE-87	↓	1340		↓	↓	↓	↓	↓	↓	↓	↓			
3	WS-AOC-9-SE-88		1350												
4	WS-AOC-9-SE-90		1400												
5	WS-AOC-8-SE-23		1410												
6	Trip Blank		—			↓						X			
7	EB-52	↓	1215		↓	O	↓	X	X	X	X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[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: 8/25/17 1510
Received by: (signature) Tom Mau	Date/Time: 8/25/17 1510
Relinquished by: (signature) Tom Mau	Date/Time: 8/25/17 1640
Received by: (signature) 2.2	Date/Time: 8/25/17 1640
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RSL 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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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

Table of Contents

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 8/25/17 Time 1640

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.2
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? T On COC? T
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	10
Meoh-	6	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	12	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/25/17 1640	
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\A082917.SEC\A0829007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/29/17
Data File Name	A0829007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	530131	552219	-4
c - 10	1.63	540238	552219	-2
c - 12	2.35	559352	552219	1
c - 14	3.01	567988	552219	3
c - 16	3.62	576102	552219	4
c - 18	4.23	565466	552219	2
o-Terphenyl	4.51	626292	552219	
c - 20	4.83	568421	552219	3
c - 22	5.34	573679	552219	4
c - 24	5.78	532804	552219	-4
c - 26	6.17	558950	552219	1
c - 28	6.53	552279	552219	0
c - 30	6.86	546755	552219	-1
c - 32	7.17	533599	552219	-3
c - 34	7.46	537963	552219	-3
c - 36	7.78	539553	552219	-2

* One compound allowed %D <= 50%

Samples

17H1324-01
17H1324-02
17H1324-03
17H1324-04
17H1324-05
17H1324-06
17H1324-07
17H1324-08
17H1324-10
17H1329-01
17H1329-03
17H1371-01
17H1395-01
17H1395-02

D:\HPCHEM\1\DATA\A082917.SEC\A0829061.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/29/17
Data File Name	A0829061.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	535235	556629	-4
c - 10	1.63	542910	556629	-2
c - 12	2.35	559068	556629	0
c - 14	3.01	569195	556629	2
c - 16	3.61	579549	556629	4
c - 18	4.23	569802	556629	2
o-Terphenyl	4.51	631195	556629	
c - 20	4.83	573519	556629	3
c - 22	5.34	578710	556629	4
c - 24	5.78	536575	556629	-4
c - 26	6.17	562670	556629	1
c - 28	6.52	555025	556629	0
c - 30	6.86	552677	556629	-1
c - 32	7.17	541692	556629	-3
c - 34	7.46	545845	556629	-2
c - 36	7.77	546965	556629	-2

* One compound allowed %D </= 50%

Samples

17H1395-04
17H1432-07
17H1317-01
17H1318-01
17H1319-01
17H1319-02
17H1319-03
17H1319-04
17H1329-02
17H1425-01
17H1425-02
17H1425-04

D:\HPCHEM\1\DATA\A082917.SEC\A0829107.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/30/17
Data File Name	A0829107.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	553436	576511	-4
c - 10	1.63	562139	576511	-2
c - 12	2.35	577444	576511	0
c - 14	3.01	587757	576511	2
c - 16	3.61	599368	576511	4
c - 18	4.23	590233	576511	2
o-Terphenyl	4.51	654964	576511	
c - 20	4.83	594610	576511	3
c - 22	5.34	599934	576511	4
c - 24	5.78	556613	576511	-3
c - 26	6.17	583801	576511	1
c - 28	6.52	575827	576511	0
c - 30	6.86	573262	576511	-1
c - 32	7.17	561194	576511	-3
c - 34	7.46	565696	576511	-2
c - 36	7.77	566344	576511	-2

* One compound allowed %D <= 50%

Samples

17H1465-01
17H1465-02
17H1193-01RE1

D:\HPCHEM\1\DATA\A090517\A0905052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/5/17
Data File Name	A0905052.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	380236	409600	-7
c - 10	1.64	390101	409600	-5
c - 12	2.37	407254	409600	-1
c - 14	3.05	416145	409600	2
c - 16	3.65	425628	409600	4
c - 18	4.29	420914	409600	3
o-Terphenyl	4.57	465244	409600	
c - 20	4.89	426082	409600	4
c - 22	5.40	432017	409600	5
c - 24	5.84	402008	409600	-2
c - 26	6.23	420612	409600	3
c - 28	6.59	411599	409600	0
c - 30	6.93	405834	409600	-1
c - 32	7.24	394435	409600	-4
c - 34	7.53	399757	409600	-2
c - 36	7.88	411385	409600	0

* One compound allowed %D <= 50%

Samples

17H1623-02
17H1623-03
17H1630-02
17H1630-03
17H1630-04
17H1630-05
17H1630-06
17H1630-07
17H1630-08
17H1630-01

D:\HPCHEM\1\DATA\A090517\A0905110.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/6/17
Data File Name	A0905110.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	415185	449792	-8
c - 10	1.64	426236	449792	-5
c - 12	2.37	444684	449792	-1
c - 14	3.04	454380	449792	1
c - 16	3.65	465282	449792	3
c - 18	4.29	461698	449792	3
o-Terphenyl	4.57	512445	449792	
c - 20	4.89	468630	449792	4
c - 22	5.39	476839	449792	6
c - 24	5.83	444188	449792	-1
c - 26	6.23	465365	449792	3
c - 28	6.59	455715	449792	1
c - 30	6.92	449593	449792	0
c - 32	7.24	438359	449792	-3
c - 34	7.53	439810	449792	-2
c - 36	7.88	440920	449792	-2

* One compound allowed %D <= 50%

Samples

17H1432-02

D:\HPCHEM\1\DATA\A090517.SEC\A0905053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/5/17
Data File Name	A0905053.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	453769	476965	-5
c - 10	1.62	460280	476965	-3
c - 12	2.34	474583	476965	0
c - 14	3.01	483137	476965	1
c - 16	3.61	493711	476965	4
c - 18	4.23	487045	476965	2
o-Terphenyl	4.51	540841	476965	
c - 20	4.83	491895	476965	3
c - 22	5.34	496950	476965	4
c - 24	5.78	461624	476965	-3
c - 26	6.17	485069	476965	2
c - 28	6.52	478770	476965	0
c - 30	6.85	477617	476965	0
c - 32	7.17	468356	476965	-2
c - 34	7.46	470700	476965	-1
c - 36	7.77	470963	476965	-1

* One compound allowed %D </= 50%

Samples

17H1515-01
17H1515-02
17H1515-03
17H1515-04
17H1515-05
17H1515-06
17H1515-07
17H1515-08
17H1546-01
17H1546-03
17H1546-04
17H1546-05
17H1546-08
17H1546-10
17H1546-16

D:\HPCHEM\1\DATA\A090517.SEC\A0905111.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/6/17
Data File Name	A0905111.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	507218	537020	-6
c - 10	1.63	516196	537020	-4
c - 12	2.35	532126	537020	-1
c - 14	3.01	543055	537020	1
c - 16	3.61	555735	537020	3
c - 18	4.23	548984	537020	2
o-Terphenyl	4.51	609669	537020	
c - 20	4.84	554022	537020	3
c - 22	5.34	560672	537020	4
c - 24	5.78	521011	537020	-3
c - 26	6.17	547684	537020	2
c - 28	6.52	540887	537020	1
c - 30	6.86	539473	537020	0
c - 32	7.17	528239	537020	-2
c - 34	7.46	530511	537020	-1
c - 36	7.77	529482	537020	-1

* One compound allowed %D </= 50%

Samples

17H1432-01@5X
17H1432-03@5X
17H1432-04@5X
17H1432-05@10X

D:\HPCHEM\1\DATA\A090517\A0905142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/6/17
Data File Name	A0905142.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	425588	463941	-8
c - 10	1.64	438056	463941	-6
c - 12	2.37	457459	463941	-1
c - 14	3.04	468337	463941	1
c - 16	3.65	479972	463941	3
c - 18	4.29	476400	463941	3
o-Terphenyl	4.57	527845	463941	
c - 20	4.89	483217	463941	4
c - 22	5.40	491595	463941	6
c - 24	5.84	458256	463941	-1
c - 26	6.23	480294	463941	4
c - 28	6.59	470940	463941	2
c - 30	6.92	465145	463941	0
c - 32	7.24	453363	463941	-2
c - 34	7.53	454529	463941	-2
c - 36	7.88	455969	463941	-2

* One compound allowed %D </= 50%

Samples

17H1623-01@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17H1432

Laboratory Sample ID(s):

17H1432-01 thru 17H1432-07

Sample Date(s):

08/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **09/11/17**

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 14, 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: 17H1621

Enclosed are results of analyses for samples received by the laboratory on August 30, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

REPORT DATE: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1621

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-43	17H1621-01	Product/Solid		SW-846 8082A	
WS-AOC14-CO-44	17H1621-02	Product/Solid		SW-846 8082A	
WS-AOC14-CO-45	17H1621-03	Product/Solid		SW-846 8082A	
WS-AOC14-CO-46	17H1621-04	Product/Solid		SW-846 8082A	
WS-AOC14-CO-47	17H1621-05	Product/Solid		SW-846 8082A	
WS-AOC14-CO-48	17H1621-06	Product/Solid		SW-846 8082A	
WS-AOC14-WO-49	17H1621-07	Product/Solid		SW-846 8082A	
WS-AOC14-CO-50	17H1621-08	Product/Solid		SW-846 8082A	
WS-AOC14-CO-51	17H1621-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-52	17H1621-10	Product/Solid		SW-846 8082A	
WS-AOC14-CO-53	17H1621-11	Product/Solid		SW-846 8082A	
WS-AOC14-CO-54	17H1621-12	Product/Solid		SW-846 8082A	
WS-AOC14-CO-55	17H1621-13	Product/Solid		SW-846 8082A	
WS-AOC14-CO-56	17H1621-14	Product/Solid		SW-846 8082A	
WS-AOC14-SE-51	17H1621-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-52	17H1621-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-53	17H1621-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-54	17H1621-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-55	17H1621-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-56	17H1621-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-CO-Dup19	17H1621-21	Product/Solid		SW-846 8082A	
WS-AOC9-OIL-91	17H1621-22	Oil		EPA 600 4-81-045	
Equipment Blank-56	17H1621-23	Equipment Blank Water		SW-846 8082A	
Equipment Blank-57	17H1621-24	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	

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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
17H1621-18[WS-AOC14-SE-54]

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H1621-10[WS-AOC14-CO-52], 17H1621-12[WS-AOC14-CO-54], 17H1621-13[WS-AOC14-CO-55], 17H1621-14[WS-AOC14-CO-56]

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
B185572-BS1, B185572-BSD1

Aroclor-1260 [2C]
B185572-BS1, B185572-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1260
17H1621-23[Equipment Blank-56], 17H1621-24[Equipment Blank-57]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17H1621-18[WS-AOC14-SE-54]

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

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-43 Sampled: 8/30/2017 09:00

Sample ID: 17H1621-01

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1248 [2]	0.11	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1254 [2]	0.14	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1260 [2]	0.23	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/12/17 19:04
Decachlorobiphenyl [2]	78.6	30-150		9/12/17 19:04
Tetrachloro-m-xylene [1]	85.9	30-150		9/12/17 19:04
Tetrachloro-m-xylene [2]	87.7	30-150		9/12/17 19:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-44 Sampled: 8/30/2017 09:10

Sample ID: 17H1621-02

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1248 [2]	0.16	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1254 [2]	0.18	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1260 [2]	0.20	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		9/12/17 19:22
Decachlorobiphenyl [2]	83.7	30-150		9/12/17 19:22
Tetrachloro-m-xylene [1]	83.9	30-150		9/12/17 19:22
Tetrachloro-m-xylene [2]	88.4	30-150		9/12/17 19:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-45 Sampled: 8/30/2017 09:20

Sample ID: 17H1621-03

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1248 [2]	0.11	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1254 [2]	0.12	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.6	30-150		9/12/17 19:40
Decachlorobiphenyl [2]	79.9	30-150		9/12/17 19:40
Tetrachloro-m-xylene [1]	90.3	30-150		9/12/17 19:40
Tetrachloro-m-xylene [2]	89.2	30-150		9/12/17 19:40

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-46 Sampled: 8/30/2017 09:30

Sample ID: 17H1621-04

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/12/17 19:57
Decachlorobiphenyl [2]	82.8	30-150		9/12/17 19:57
Tetrachloro-m-xylene [1]	89.8	30-150		9/12/17 19:57
Tetrachloro-m-xylene [2]	90.0	30-150		9/12/17 19:57

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-47 Sampled: 8/30/2017 09:40

Sample ID: 17H1621-05

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		9/12/17 20:15
Decachlorobiphenyl [2]	79.7	30-150		9/12/17 20:15
Tetrachloro-m-xylene [1]	84.8	30-150		9/12/17 20:15
Tetrachloro-m-xylene [2]	87.9	30-150		9/12/17 20:15

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-48 Sampled: 8/30/2017 09:50

Sample ID: 17H1621-06

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	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		9/12/17 20:33
Decachlorobiphenyl [2]	78.9	30-150		9/12/17 20:33
Tetrachloro-m-xylene [1]	84.3	30-150		9/12/17 20:33
Tetrachloro-m-xylene [2]	85.3	30-150		9/12/17 20:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-WO-49 Sampled: 8/30/2017 10:00

Sample ID: 17H1621-07

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	9/6/17	9/12/17 20:51	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		9/12/17 20:51
Decachlorobiphenyl [2]	88.1	30-150		9/12/17 20:51
Tetrachloro-m-xylene [1]	92.0	30-150		9/12/17 20:51
Tetrachloro-m-xylene [2]	91.9	30-150		9/12/17 20:51

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-50 Sampled: 8/30/2017 10:10

Sample ID: 17H1621-08

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1248 [2]	0.10	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1254 [2]	0.11	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		9/12/17 21:56
Decachlorobiphenyl [2]	80.9	30-150		9/12/17 21:56
Tetrachloro-m-xylene [1]	70.8	30-150		9/12/17 21:56
Tetrachloro-m-xylene [2]	73.8	30-150		9/12/17 21:56

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-51 Sampled: 8/30/2017 11:00

Sample ID: 17H1621-09

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		9/12/17 22:14
Decachlorobiphenyl [2]	52.5	30-150		9/12/17 22:14
Tetrachloro-m-xylene [1]	55.6	30-150		9/12/17 22:14
Tetrachloro-m-xylene [2]	57.5	30-150		9/12/17 22:14

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-52 Sampled: 8/30/2017 11:10

Sample ID: 17H1621-10

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	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.8	30-150		9/13/17 8:45
Decachlorobiphenyl [2]	101	30-150		9/13/17 8:45
Tetrachloro-m-xylene [1]	96.7	30-150		9/13/17 8:45
Tetrachloro-m-xylene [2]	103	30-150		9/13/17 8:45

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-53 Sampled: 8/30/2017 11:20

Sample ID: 17H1621-11

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		9/12/17 22:49
Decachlorobiphenyl [2]	78.6	30-150		9/12/17 22:49
Tetrachloro-m-xylene [1]	81.9	30-150		9/12/17 22:49
Tetrachloro-m-xylene [2]	82.7	30-150		9/12/17 22:49

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-54 Sampled: 8/30/2017 11:30

Sample ID: 17H1621-12

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	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		9/13/17 9:02
Decachlorobiphenyl [2]	101	30-150		9/13/17 9:02
Tetrachloro-m-xylene [1]	92.4	30-150		9/13/17 9:02
Tetrachloro-m-xylene [2]	97.9	30-150		9/13/17 9:02

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-55 Sampled: 8/30/2017 11:40

Sample ID: 17H1621-13

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	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/13/17 9:20
Decachlorobiphenyl [2]	94.2	30-150		9/13/17 9:20
Tetrachloro-m-xylene [1]	88.4	30-150		9/13/17 9:20
Tetrachloro-m-xylene [2]	93.0	30-150		9/13/17 9:20

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-56 Sampled: 8/30/2017 11:50

Sample ID: 17H1621-14

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	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.6	30-150		9/13/17 9:38
Decachlorobiphenyl [2]	66.5	30-150		9/13/17 9:38
Tetrachloro-m-xylene [1]	60.6	30-150		9/13/17 9:38
Tetrachloro-m-xylene [2]	65.6	30-150		9/13/17 9:38

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-51 Sampled: 8/30/2017 11:05

Sample ID: 17H1621-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1248 [1]	0.59	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1254 [2]	0.53	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1260 [2]	0.21	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.6	30-150		9/10/17 2:24
Decachlorobiphenyl [2]	66.6	30-150		9/10/17 2:24
Tetrachloro-m-xylene [1]	74.1	30-150		9/10/17 2:24
Tetrachloro-m-xylene [2]	76.6	30-150		9/10/17 2:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-51 Sampled: 8/30/2017 11:05

Sample ID: 17H1621-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	43.3		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-52 Sampled: 8/30/2017 11:15

Sample ID: 17H1621-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1248 [2]	0.31	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1254 [2]	0.34	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.7	30-150		9/10/17 2:37
Decachlorobiphenyl [2]	75.9	30-150		9/10/17 2:37
Tetrachloro-m-xylene [1]	85.1	30-150		9/10/17 2:37
Tetrachloro-m-xylene [2]	88.0	30-150		9/10/17 2:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-52 Sampled: 8/30/2017 11:15

Sample ID: 17H1621-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-53 Sampled: 8/30/2017 11:25

Sample ID: 17H1621-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1248 [2]	0.097	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1254 [2]	0.12	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.4	30-150		9/10/17 2:49
Decachlorobiphenyl [2]	74.8	30-150		9/10/17 2:49
Tetrachloro-m-xylene [1]	80.4	30-150		9/10/17 2:49
Tetrachloro-m-xylene [2]	84.4	30-150		9/10/17 2:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-53 Sampled: 8/30/2017 11:25

Sample ID: 17H1621-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Acenaphthylene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(a)anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(a)pyrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(b)fluoranthene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(g,h,i)perylene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(k)fluoranthene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Chrysene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Dibenz(a,h)anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Fluoranthene	1.7	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Fluorene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
2-Methylnaphthalene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Naphthalene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Phenanthrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Pyrene	1.6	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	62.0	30-130		9/8/17 15:49
2-Fluorobiphenyl	61.7	30-130		9/8/17 15:49
p-Terphenyl-d14	72.0	30-130		9/8/17 15:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1248 [1]	0.21	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1254 [2]	0.35	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.4	30-150		9/10/17 3:02
Decachlorobiphenyl [2]	60.6	30-150		9/10/17 3:02
Tetrachloro-m-xylene [1]	71.6	30-150		9/10/17 3:02
Tetrachloro-m-xylene [2]	75.4	30-150		9/10/17 3:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	320	mg/Kg dry	20		CTDEP ETPH	9/6/17	9/8/17 3:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/8/17 3:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.5		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-55 Sampled: 8/30/2017 11:45

Sample ID: 17H1621-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1248 [1]	2.1	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1254 [2]	1.7	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1260 [2]	0.64	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.5	30-150		9/10/17 3:15
Decachlorobiphenyl [2]	61.5	30-150		9/10/17 3:15
Tetrachloro-m-xylene [1]	66.1	30-150		9/10/17 3:15
Tetrachloro-m-xylene [2]	71.8	30-150		9/10/17 3:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-55 Sampled: 8/30/2017 11:45

Sample ID: 17H1621-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	30.8		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-56 Sampled: 8/30/2017 11:55

Sample ID: 17H1621-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1248 [2]	0.33	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1254 [2]	0.55	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1260 [2]	0.30	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		9/10/17 3:27
Decachlorobiphenyl [2]	68.9	30-150		9/10/17 3:27
Tetrachloro-m-xylene [1]	75.1	30-150		9/10/17 3:27
Tetrachloro-m-xylene [2]	78.8	30-150		9/10/17 3:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-56 Sampled: 8/30/2017 11:55

Sample ID: 17H1621-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	47.8		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-Dup19 Sampled: 8/30/2017 00:00

Sample ID: 17H1621-21

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		9/13/17 0:00
Decachlorobiphenyl [2]	69.8	30-150		9/13/17 0:00
Tetrachloro-m-xylene [1]	66.8	30-150		9/13/17 0:00
Tetrachloro-m-xylene [2]	66.9	30-150		9/13/17 0:00

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC9-OIL-91 Sampled: 8/30/2017 08:30

Sample ID: 17H1621-22

Sample Matrix: Oil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1260 [1]	5.0	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		9/13/17 11:03
Decachlorobiphenyl [2]	86.6	30-150		9/13/17 11:03
Tetrachloro-m-xylene [1]	105	30-150		9/13/17 11:03
Tetrachloro-m-xylene [2]	101	30-150		9/13/17 11:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-56 Sampled: 8/30/2017 08:00

Sample ID: 17H1621-23

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	V-20	SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		9/8/17 22:24
Decachlorobiphenyl [2]	100	30-150		9/8/17 22:24
Tetrachloro-m-xylene [1]	93.7	30-150		9/8/17 22:24
Tetrachloro-m-xylene [2]	90.9	30-150		9/8/17 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: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	75.1	30-130		9/7/17 19:12
2-Fluorobiphenyl	73.1	30-130		9/7/17 19:12
p-Terphenyl-d14	67.2	30-130		9/7/17 19:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	V-20	SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		9/8/17 22:37
Decachlorobiphenyl [2]	101	30-150		9/8/17 22:37
Tetrachloro-m-xylene [1]	92.9	30-150		9/8/17 22:37
Tetrachloro-m-xylene [2]	89.8	30-150		9/8/17 22:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/6/17	9/8/17 20:44	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.6	50-150		9/8/17 20:44

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-18 [WS-AOC14-SE-54]	B185603	30.0	1.00	09/06/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-24 [Equipment Blank-57]	B185641	1000	1.00	09/06/17

Prep Method: SW-846 3580A-EPA 600 4-81-045

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-22 [WS-AOC9-OIL-91]	B185719	0.203	10.0	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1621-15 [WS-AOC14-SE-51]	B185393	09/01/17
17H1621-16 [WS-AOC14-SE-52]	B185393	09/01/17
17H1621-17 [WS-AOC14-SE-53]	B185393	09/01/17
17H1621-18 [WS-AOC14-SE-54]	B185393	09/01/17
17H1621-19 [WS-AOC14-SE-55]	B185393	09/01/17
17H1621-20 [WS-AOC14-SE-56]	B185393	09/01/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-01 [WS-AOC14-CO-43]	B185662	2.04	10.0	09/06/17
17H1621-02 [WS-AOC14-CO-44]	B185662	2.02	10.0	09/06/17
17H1621-03 [WS-AOC14-CO-45]	B185662	2.03	10.0	09/06/17
17H1621-04 [WS-AOC14-CO-46]	B185662	2.08	10.0	09/06/17
17H1621-05 [WS-AOC14-CO-47]	B185662	2.04	10.0	09/06/17
17H1621-06 [WS-AOC14-CO-48]	B185662	2.07	10.0	09/06/17
17H1621-07 [WS-AOC14-WO-49]	B185662	2.15	10.0	09/06/17
17H1621-08 [WS-AOC14-CO-50]	B185662	2.09	10.0	09/06/17
17H1621-09 [WS-AOC14-CO-51]	B185662	2.05	10.0	09/06/17
17H1621-10 [WS-AOC14-CO-52]	B185662	2.02	10.0	09/06/17
17H1621-11 [WS-AOC14-CO-53]	B185662	2.02	10.0	09/06/17
17H1621-12 [WS-AOC14-CO-54]	B185662	2.02	10.0	09/06/17
17H1621-13 [WS-AOC14-CO-55]	B185662	2.08	10.0	09/06/17
17H1621-14 [WS-AOC14-CO-56]	B185662	2.08	10.0	09/06/17
17H1621-21 [WS-AOC14-CO-Dup19]	B185662	2.09	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-15 [WS-AOC14-SE-51]	B185576	10.1	10.0	09/06/17
17H1621-16 [WS-AOC14-SE-52]	B185576	10.2	10.0	09/06/17
17H1621-17 [WS-AOC14-SE-53]	B185576	10.2	10.0	09/06/17
17H1621-18 [WS-AOC14-SE-54]	B185576	10.3	10.0	09/06/17
17H1621-19 [WS-AOC14-SE-55]	B185576	10.0	10.0	09/06/17

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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
17H1621-20 [WS-AOC14-SE-56]	B185576	10.1	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-23 [Equipment Blank-56]	B185572	1000	10.0	09/06/17
17H1621-24 [Equipment Blank-57]	B185572	1000	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-18 [WS-AOC14-SE-54]	B185658	30.0	2.00	09/06/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-24 [Equipment Blank-57]	B185447	1000	1.00	09/02/17

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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 B185447 - SW-846 3510C										
Blank (B185447-BLK1)				Prepared: 09/02/17 Analyzed: 09/06/17						
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	*77.8*		µg/L	100		77.8	30-130			
Surrogate: 2-Fluorobiphenyl	*73.6*		µg/L	100		73.6	30-130			
Surrogate: p-Terphenyl-d14	*68.8*		µg/L	100		68.8	30-130			
LCS (B185447-BS1)				Prepared: 09/02/17 Analyzed: 09/06/17						
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.7	40-140			
Acenaphthylene (SIM)	47.6	7.5	µg/L	50.0		95.3	40-140			
Anthracene (SIM)	51.3	5.0	µg/L	50.0		103	40-140			
Benzo(a)anthracene (SIM)	50.0	1.2	µg/L	50.0		100	40-140			
Benzo(a)pyrene (SIM)	53.6	2.5	µg/L	50.0		107	40-140			
Benzo(b)fluoranthene (SIM)	53.7	1.2	µg/L	50.0		107	40-140			
Benzo(g,h,i)perylene (SIM)	51.6	12	µg/L	50.0		103	40-140			
Benzo(k)fluoranthene (SIM)	52.7	5.0	µg/L	50.0		105	40-140			
Chrysene (SIM)	50.4	5.0	µg/L	50.0		101	40-140			
Dibenz(a,h)anthracene (SIM)	52.5	5.0	µg/L	50.0		105	40-140			
Fluoranthene (SIM)	51.0	12	µg/L	50.0		102	40-140			
Fluorene (SIM)	50.0	25	µg/L	50.0		100	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	51.9	5.0	µg/L	50.0		104	40-140			
2-Methylnaphthalene (SIM)	47.7	25	µg/L	50.0		95.4	40-140			
Naphthalene (SIM)	45.9	25	µg/L	50.0		91.8	40-140			
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140			
Pyrene (SIM)	49.6	25	µg/L	50.0		99.1	40-140			
Surrogate: Nitrobenzene-d5	*100*		µg/L	100		100	30-130			
Surrogate: 2-Fluorobiphenyl	*106*		µg/L	100		106	30-130			
Surrogate: p-Terphenyl-d14	*84.5*		µg/L	100		84.5	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 B185447 - SW-846 3510C										
LCS Dup (B185447-BSD1)				Prepared: 09/02/17 Analyzed: 09/06/17						
Acenaphthene (SIM)	44.4	7.5	µg/L	50.0		88.8	40-140	9.60	20	
Acenaphthylene (SIM)	43.4	7.5	µg/L	50.0		86.8	40-140	9.34	20	
Anthracene (SIM)	46.4	5.0	µg/L	50.0		92.9	40-140	9.87	20	
Benzo(a)anthracene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140	10.4	20	
Benzo(a)pyrene (SIM)	47.8	2.5	µg/L	50.0		95.7	40-140	11.3	20	
Benzo(b)fluoranthene (SIM)	48.7	1.2	µg/L	50.0		97.4	40-140	9.86	20	
Benzo(g,h,i)perylene (SIM)	46.1	12	µg/L	50.0		92.2	40-140	11.4	20	
Benzo(k)fluoranthene (SIM)	47.4	5.0	µg/L	50.0		94.8	40-140	10.5	20	
Chrysene (SIM)	45.6	5.0	µg/L	50.0		91.2	40-140	9.99	20	
Dibenz(a,h)anthracene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140	11.4	20	
Fluoranthene (SIM)	44.9	12	µg/L	50.0		89.8	40-140	12.7	20	
Fluorene (SIM)	44.2	25	µg/L	50.0		88.5	40-140	12.3	20	
Indeno(1,2,3-cd)pyrene (SIM)	46.0	5.0	µg/L	50.0		92.1	40-140	12.0	20	‡
2-Methylnaphthalene (SIM)	43.1	25	µg/L	50.0		86.2	40-140	10.1	20	
Naphthalene (SIM)	41.9	25	µg/L	50.0		83.8	40-140	9.00	20	
Phenanthrene (SIM)	45.5	1.2	µg/L	50.0		91.0	40-140	10.1	20	
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140	7.76	20	
Surrogate: Nitrobenzene-d5	*90.0*		µg/L	100		90.0	30-130			
Surrogate: 2-Fluorobiphenyl	*94.8*		µg/L	100		94.8	30-130			
Surrogate: p-Terphenyl-d14	*75.1*		µg/L	100		75.1	30-130			
Batch B185658 - SW-846 3546										
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
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	*2.27*		mg/Kg wet	3.33		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4	30-130			
Surrogate: p-Terphenyl-d14	*3.28*		mg/Kg wet	3.33		98.5	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 B185658 - SW-846 3546										
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Surrogate: Nitrobenzene-d5	*2.56*		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.61*		mg/Kg wet	3.33		78.4	30-130			
Surrogate: p-Terphenyl-d14	*2.92*		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	1.16	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.190	30	
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	3.36	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	2.08	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	1.76	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	0.993	30	
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.0335	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	0.352	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	1.35	30	
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140	7.36	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	1.64	30	
Fluorene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	2.29	30	
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.384	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	1.83	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.35	30	
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	3.81	30	
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	2.66	30	
Surrogate: Nitrobenzene-d5	*2.67*		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.67*		mg/Kg wet	3.33		80.0	30-130			
Surrogate: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		87.1	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 B185572 - SW-846 3510C										
Blank (B185572-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*2.15*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.27*		µg/L	2.00		114	30-150			
Surrogate: Tetrachloro-m-xylene	*2.11*		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.01*		µg/L	2.00		100	30-150			
LCS (B185572-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		100	40-140			V-06
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.2	40-140			V-06
Surrogate: Decachlorobiphenyl	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.92*		µg/L	2.00		96.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.84*		µg/L	2.00		92.1	30-150			
LCS Dup (B185572-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Aroclor-1016	0.51	0.20	µg/L	0.500		103	40-140	1.23	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.1	40-140	1.48	20	
Aroclor-1260	0.51	0.20	µg/L	0.500		102	40-140	1.23	20	V-06
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		98.1	40-140	1.99	20	V-06
Surrogate: Decachlorobiphenyl	*1.97*		µg/L	2.00		98.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.86*		µg/L	2.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.78*		µg/L	2.00		89.2	30-150			

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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 B185719 - SW-846 3580A										
Blank (B185719-BLK1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1016	ND	0.97	mg/Kg							
Aroclor-1016 [2C]	ND	0.97	mg/Kg							
Aroclor-1221	ND	0.97	mg/Kg							
Aroclor-1221 [2C]	ND	0.97	mg/Kg							
Aroclor-1232	ND	0.97	mg/Kg							
Aroclor-1232 [2C]	ND	0.97	mg/Kg							
Aroclor-1242	ND	0.97	mg/Kg							
Aroclor-1242 [2C]	ND	0.97	mg/Kg							
Aroclor-1248	ND	0.97	mg/Kg							
Aroclor-1248 [2C]	ND	0.97	mg/Kg							
Aroclor-1254	ND	0.97	mg/Kg							
Aroclor-1254 [2C]	ND	0.97	mg/Kg							
Aroclor-1260	ND	0.97	mg/Kg							
Aroclor-1260 [2C]	ND	0.97	mg/Kg							
Aroclor-1262	ND	0.97	mg/Kg							
Aroclor-1262 [2C]	ND	0.97	mg/Kg							
Aroclor-1268	ND	0.97	mg/Kg							
Aroclor-1268 [2C]	ND	0.97	mg/Kg							
Surrogate: Decachlorobiphenyl	*8.26*		mg/Kg	9.72		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*7.76*		mg/Kg	9.72		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*8.12*		mg/Kg	9.72		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*8.59*		mg/Kg	9.72		88.4	30-150			
LCS (B185719-BS1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1260	35	6.3	mg/Kg	33.8		104	85-115			
Aroclor-1260 [2C]	34	6.3	mg/Kg	33.8		101	85-115			
Surrogate: Decachlorobiphenyl	*62.1*		mg/Kg	62.9		98.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*59.4*		mg/Kg	62.9		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*58.8*		mg/Kg	62.9		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*60.4*		mg/Kg	62.9		96.0	30-150			
LCS Dup (B185719-BSD1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1260	34	6.5	mg/Kg	33.8		101	85-115	3.14	30	
Aroclor-1260 [2C]	33	6.5	mg/Kg	33.8		98.3	85-115	2.75	30	
Surrogate: Decachlorobiphenyl	*62.4*		mg/Kg	64.7		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*59.8*		mg/Kg	64.7		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*58.4*		mg/Kg	64.7		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*60.4*		mg/Kg	64.7		93.3	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 B185576 - SW-846 3540C										
Blank (B185576-BLK1)				Prepared: 09/06/17 Analyzed: 09/09/17						
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	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg wet	0.200		105	30-150			
LCS (B185576-BS1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.1	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.3	40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS Dup (B185576-BSD1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.0	40-140	6.46	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	5.67	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	9.91	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.5	40-140	10.0	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.2	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 B185662 - SW-846 3540C										
Blank (B185662-BLK1)				Prepared: 09/06/17 Analyzed: 09/12/17						
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	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.925*		mg/Kg	1.00		92.5	30-150			
LCS (B185662-BS1)				Prepared: 09/06/17 Analyzed: 09/12/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.1	40-140			
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00		88.7	40-140			
Aroclor-1260	0.83	0.10	mg/Kg	1.00		83.1	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		77.8	40-140			
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.989*		mg/Kg	1.00		98.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.938*		mg/Kg	1.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.944*		mg/Kg	1.00		94.4	30-150			
LCS Dup (B185662-BSD1)				Prepared: 09/06/17 Analyzed: 09/12/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.7	40-140	0.703	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.4	40-140	3.03	30	
Aroclor-1260	0.85	0.10	mg/Kg	1.00		85.2	40-140	2.47	30	
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.2	40-140	1.75	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.980*		mg/Kg	1.00		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.960*		mg/Kg	1.00		96.0	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185603 - SW-846 3546										
Blank (B185603-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.25*		mg/Kg wet	3.33		97.5	50-150			
LCS (B185603-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	23.2	10	mg/Kg wet	33.3		69.5	60-120			
Surrogate: o-Terphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			
LCS Dup (B185603-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	25.8	10	mg/Kg wet	33.3		77.3	60-120	10.6	30	
Surrogate: o-Terphenyl	*3.33*		mg/Kg wet	3.33		99.8	50-150			
Batch B185641 - SW-846 3510C										
Blank (B185641-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0982*		mg/L	0.100		98.2	50-150			
LCS (B185641-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	0.781	0.075	mg/L	1.00		78.1	60-120			
Surrogate: o-Terphenyl	*0.0952*		mg/L	0.100		95.2	50-150			
LCS Dup (B185641-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	0.756	0.075	mg/L	1.00		75.6	60-120	3.30	30	
Surrogate: o-Terphenyl	*0.0925*		mg/L	0.100		92.5	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-43

Lab Sample ID: 17H1621-01 Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.099	
	2	0.000	0.000	0.000	0.11	10.5
Aroclor-1254	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.23	14.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-44

Lab Sample ID: 17H1621-02 Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.14	
	2	0.000	0.000	0.000	0.16	13.3
Aroclor-1254	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.18	11.8
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.20	28.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-45

Lab Sample ID: 17H1621-03 Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.11	
	2	0.000	0.000	0.000	0.11	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-50

Lab Sample ID: 17H1621-08

Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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	0.096	
	2	0.000	0.000	0.000	0.10	4.1
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.11	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-51

Lab Sample ID: 17H1621-15 Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.59	
	2	0.000	-0.030	0.030	0.56	5.2
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.53	12.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.21	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-52

Lab Sample ID: 17H1621-16

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1254	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.34	9.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-53

Lab Sample ID: 17H1621-17

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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	0.097	
	2	0.000	-0.030	0.030	0.12	21.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-54

Lab Sample ID: 17H1621-18

Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1254	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.35	18.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-55

Lab Sample ID: 17H1621-19 Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	2.1	
	2	0.000	-0.030	0.030	1.9	10.0
Aroclor-1254	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.7	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.57	
	2	0.000	-0.030	0.030	0.64	11.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-56

Lab Sample ID: 17H1621-20 Date(s) Analyzed: 09/10/2017 09/10/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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	0.31	
	2	0.000	-0.030	0.030	0.33	6.3
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.55	15.7
Aroclor-1260	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.30	3.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

WS-AOC9-OIL-91

Lab Sample ID: 17H1621-22

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

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	5.0	
	2	0.000	0.000	0.000	4.2	17.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185572-BS1

Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.48	8.0
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.48	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185572-BSD1 Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.49	4.0
Aroclor-1260	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.49	4.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185576-BS1

Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185576-BSD1 Date(s) Analyzed: 09/09/2017 09/09/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185662-BS1

Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.89	2.2
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.78	6.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185662-BSD1 Date(s) Analyzed: 09/12/2017 09/12/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.92	
	2	0.000	0.000	0.000	0.91	1.1
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.79	7.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS

Lab Sample ID: B185719-BS1

Date(s) Analyzed: 09/10/2017 09/10/2017

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	35	
	2	0.000	0.000	0.000	34	2.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS Dup

Lab Sample ID: B185719-BSD1

Date(s) Analyzed: 09/10/2017 09/10/2017

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	34	
	2	0.000	0.000	0.000	33	3.0

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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.

DL-03	Elevated reporting limit due to matrix.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
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.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
EPA 600 4-81-045 in Oil	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 8270D in Water	
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

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 17H1621
Fax: 413-525-6405
Email: info@contestlabs.com

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 3

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

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

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

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

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
01	WS-AOC14-Co-43	8/30/17	900		X	O	U	X
02	WS-AOC14-Co-44	↓	910		↓	↓	↓	X
03	WS-AOC14-Co-45		920					X
04	WS-AOC14-Co-46		930					X
05	WS-AOC14-Co-47		940					X
06	WS-AOC14-Co-48		950					X
07	WS-AOC14-WO-49		1000					X
08	WS-AOC14-Co-50		1010					X
09	WS-AOC14-Co-51		1100					X
10	WS-AOC14-Co-52	↓	1110		↓	↓	↓	X

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature] 8/30/17	
Received by: (signature) Tom Mair 8/30/17 1645	Date/Time:
Relinquished by: (signature) Tom Mair 8/30/17 1830	Date/Time:
Received by: (signature) 2.4°C [signature] 8/30/17 1830	Date/Time:
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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Fax: 413-525-6405
Email: info@contestlabs.com

17H1162

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 Borthiaume~~/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 via Soxhlet	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC14-CO-53	8/30/17	1120		X	O	U	X			1	I	A
12	WS-AOC14-CO-54	8/30/17	1130					X					
13	WS-AOC14-CO-55		1140					X					
14	WS-AOC14-CO-56		1150					X					
15	WS-AOC14-SE-51		1105			S		X					
16	WS-AOC14-SE-52		1115					X					
17	WS-AOC14-SE-53		1125					X					
18	WS-AOC14-SE-54		1135					X	X	X			
19	WS-AOC14-SE-55		1145					X					
20	WS-AOC14-SE-56		1155					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 8/30/17	Date/Time:
Received by: (signature) Tom Mac	Date/Time: 8/30/17 1645
Relinquished by: (signature) Tom Mac	Date/Time: 8/30/17 1830
Received by: (signature) 2.4°C	Date/Time: 8/30/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of 3

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

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

Rush-Approval Required
1-Day ☐ 3-Day ☐
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Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Vic Soxhlet	PCBs	ETPH	PAHs
21	WS-AOC14-Co-Dup 19	8/30/17	—		X	O	U	X			
22	WS-AOC9-OIL-91		830		X	OIL	U		X		
23	Equipment Blank-56		800		X	W	U		X		
24	Equipment Blank-57		815		X	W	U		X	X	X

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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Porous Media

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature] 8/30/17	
Received by: (signature) Tom Mari 8/30/17 1645	
Relinquished by: (signature) Tom Mari 8/30/17 1830	
Received by: (signature) 2.4 [signature] 8/30/17 1830	
Relinquished by: (signature)	
Received by: (signature)	

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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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 RLF Date 8/30/17 Time 1830

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

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

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis 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? 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.	8	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	6
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	16
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\A090717.SEC\A0907107.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0907107.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	633604	668690	-5
c - 10	1.63	642603	668690	-4
c - 12	2.35	661457	668690	-1
c - 14	3.01	675114	668690	1
c - 16	3.61	691044	668690	3
c - 18	4.23	682814	668690	2
o-Terphenyl	4.51	760564	668690	
c - 20	4.83	689419	668690	3
c - 22	5.34	698070	668690	4
c - 24	5.77	652285	668690	-2
c - 26	6.17	681611	668690	2
c - 28	6.52	673200	668690	1
c - 30	6.86	670545	668690	0
c - 32	7.16	656318	668690	-2
c - 34	7.46	660463	668690	-1
c - 36	7.77	661808	668690	-1

* One compound allowed %D </= 50%

Samples

17H1579-01RE1
17H1544-11
17H1621-18@20X

D:\HPCHEM\1\DATA\A091117\A0911006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/11/17
Data File Name	A0911006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	524328	554084	-5
c - 10	1.64	532804	554084	-4
c - 12	2.37	552317	554084	0
c - 14	3.04	566100	554084	2
c - 16	3.65	580624	554084	5
c - 18	4.29	575815	554084	4
o-Terphenyl	4.57	636260	554084	
c - 20	4.89	583143	554084	5
c - 22	5.39	592516	554084	7
c - 24	5.83	553643	554084	0
c - 26	6.23	583238	554084	5
c - 28	6.59	572763	554084	3
c - 30	6.92	554883	554084	0
c - 32	7.23	523847	554084	-5
c - 34	7.53	511661	554084	-8
c - 36	7.87	503585	554084	-9

* One compound allowed %D <= 50%

Samples

17I0043-04@10X

D:\HPCHEM\1\DATA\A090817\A0908022.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908022.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	481727	522771	-8
c - 10	1.64	490421	522771	-6
c - 12	2.37	509864	522771	-2
c - 14	3.04	523547	522771	0
c - 16	3.65	537626	522771	3
c - 18	4.29	533903	522771	2
o-Terphenyl	4.57	592385	522771	
c - 20	4.89	542364	522771	4
c - 22	5.39	553081	522771	6
c - 24	5.83	517523	522771	-1
c - 26	6.23	545373	522771	4
c - 28	6.59	537619	522771	3
c - 30	6.92	530058	522771	1
c - 32	7.24	513896	522771	-2
c - 34	7.53	512488	522771	-2
c - 36	7.88	512079	522771	-2

* One compound allowed %D </= 50%

Samples

17I0043-01
17I0043-02
17I0043-03
17I0043-05

D:\HPCHEM\1\DATA\A090817.SEC\A0908023.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908023.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	595189	627905	-5
c - 10	1.62	603227	627905	-4
c - 12	2.34	621946	627905	-1
c - 14	3.01	635030	627905	1
c - 16	3.61	650070	627905	4
c - 18	4.23	642037	627905	2
o-Terphenyl	4.51	713270	627905	
c - 20	4.83	648513	627905	3
c - 22	5.34	656041	627905	4
c - 24	5.77	610215	627905	-3
c - 26	6.16	640547	627905	2
c - 28	6.52	632830	627905	1
c - 30	6.85	628422	627905	0
c - 32	7.16	615507	627905	-2
c - 34	7.46	619124	627905	-1
c - 36	7.77	619880	627905	-1

* One compound allowed %D </= 50%

Samples

17H1621-24
17I0058-15
17I0065-01
17I0066-03
17H1066-03
17H1066-02
17H1066-03
17H1066-04
17H1066-05
17H1643-01
17H1643-01
117I0028-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17H1621

Laboratory Sample ID(s):

17H1621-01 thru 17H1621-24

Sample Date(s):

08/30/2017

List RCP Methods Used:

CTDEP ETPH, EPA 600 4-81-045, SW-846 8082A, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **09/14/17**

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 14, 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: 17H1675

Enclosed are results of analyses for samples received by the laboratory on September 1, 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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Sample Summary 4

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Sample Results 9

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17H1675-04 15

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17H1675-07 21

17H1675-08 23

17H1675-09 25

17H1675-10 27

17H1675-11 29

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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: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

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-SO-33	17H1675-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-34	17H1675-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-35	17H1675-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-36	17H1675-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-37	17H1675-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-38	17H1675-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-39	17H1675-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-17-0	17H1675-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-18-0	17H1675-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-19-0	17H1675-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-20-0	17H1675-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC8-SO-3-0	17H1675-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-45-0	17H1675-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC8-SE-25	17H1675-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC10-SE-15	17H1675-15	Soil		SM 2540G	
				SW-846 8082A	
Trip Blank	17H1675-16	Trip Blank Soil		SW-846 8260C	

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: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

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
Equipment Blank-58	17H1675-17	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

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.

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

SW-846 6010C-D

Qualifications:

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Silver
17H1675-14[WS-AOC8-SE-25]

Thallium
17H1675-14[WS-AOC8-SE-25]

SW-846 8082A

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Decachlorobiphenyl [2C]
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene [2C]
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
B185788-BS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
17H1675-14[WS-AOC8-SE-25], B185515-BLK1, B185515-BS1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
B185788-BS1

SW-846 8270D

Qualifications:

E

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

Analyte & Samples(s) Qualified:

Fluoranthene
17H1675-14[WS-AOC8-SE-25]

Pyrene
17H1675-14[WS-AOC8-SE-25]

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L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline

17H1675-14[WS-AOC8-SE-25], 17H1675-14RE1[WS-AOC8-SE-25], B185658-BLK1, B185658-BS1, B185658-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

17H1675-17[Equipment Blank-58]

Hexachlorobenzene

17H1675-17[Equipment Blank-58]

Pentachlorophenol

17H1675-17[Equipment Blank-58]

V-05

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

17H1675-14[WS-AOC8-SE-25], 17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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

Lisa A. Worthington
Project Manager

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33 Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

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	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1260 [2]	0.17	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		9/13/17 17:10
Decachlorobiphenyl [2]	94.9	30-150		9/13/17 17:10
Tetrachloro-m-xylene [1]	86.5	30-150		9/13/17 17:10
Tetrachloro-m-xylene [2]	89.6	30-150		9/13/17 17:10

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33 Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

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	91.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34 Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

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	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1260 [2]	0.24	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		9/13/17 17:27
Decachlorobiphenyl [2]	89.8	30-150		9/13/17 17:27
Tetrachloro-m-xylene [1]	81.9	30-150		9/13/17 17:27
Tetrachloro-m-xylene [2]	85.4	30-150		9/13/17 17:27

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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34 Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

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	91.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35 Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

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	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1260 [2]	0.21	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		9/13/17 17:44
Decachlorobiphenyl [2]	94.1	30-150		9/13/17 17:44
Tetrachloro-m-xylene [1]	86.5	30-150		9/13/17 17:44
Tetrachloro-m-xylene [2]	88.4	30-150		9/13/17 17:44

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35 Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36 Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1260 [2]	0.61	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		9/13/17 18:02
Decachlorobiphenyl [2]	96.6	30-150		9/13/17 18:02
Tetrachloro-m-xylene [1]	87.8	30-150		9/13/17 18:02
Tetrachloro-m-xylene [2]	91.9	30-150		9/13/17 18:02

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36 Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

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	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37 Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

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	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1221 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1232 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1242 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1248 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1254 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1260 [1]	6.2	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1262 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1268 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/14/17 5:10
Decachlorobiphenyl [2]	*	30-150	S-01	9/14/17 5:10
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/14/17 5:10
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/14/17 5:10

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37 Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

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	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38 Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1260 [2]	0.32	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		9/13/17 18:36
Decachlorobiphenyl [2]	83.5	30-150		9/13/17 18:36
Tetrachloro-m-xylene [1]	83.8	30-150		9/13/17 18:36
Tetrachloro-m-xylene [2]	84.2	30-150		9/13/17 18:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38 Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

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	92.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39 Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1260 [1]	0.14	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		9/13/17 18:54
Decachlorobiphenyl [2]	98.1	30-150		9/13/17 18:54
Tetrachloro-m-xylene [1]	89.4	30-150		9/13/17 18:54
Tetrachloro-m-xylene [2]	92.5	30-150		9/13/17 18:54

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39 Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

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	92.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0 Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1260 [2]	0.096	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.4	30-150		9/13/17 19:58
Decachlorobiphenyl [2]	64.1	30-150		9/13/17 19:58
Tetrachloro-m-xylene [1]	61.4	30-150		9/13/17 19:58
Tetrachloro-m-xylene [2]	63.0	30-150		9/13/17 19:58

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0 Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

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	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0 Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

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	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1260 [1]	0.86	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.7	30-150		9/13/17 20:15
Decachlorobiphenyl [2]	72.6	30-150		9/13/17 20:15
Tetrachloro-m-xylene [1]	64.7	30-150		9/13/17 20:15
Tetrachloro-m-xylene [2]	66.6	30-150		9/13/17 20:15

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0 Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

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	96.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0 Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

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	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1260 [2]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.0	30-150		9/13/17 20:32
Decachlorobiphenyl [2]	66.5	30-150		9/13/17 20:32
Tetrachloro-m-xylene [1]	61.1	30-150		9/13/17 20:32
Tetrachloro-m-xylene [2]	64.4	30-150		9/13/17 20:32

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0 Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0 Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		9/13/17 20:49
Decachlorobiphenyl [2]	58.3	30-150		9/13/17 20:49
Tetrachloro-m-xylene [1]	56.8	30-150		9/13/17 20:49
Tetrachloro-m-xylene [2]	58.9	30-150		9/13/17 20:49

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0 Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

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	92.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0 Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1260 [2]	0.31	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.7	30-150		9/13/17 21:07
Decachlorobiphenyl [2]	56.5	30-150		9/13/17 21:07
Tetrachloro-m-xylene [1]	44.1	30-150		9/13/17 21:07
Tetrachloro-m-xylene [2]	45.2	30-150		9/13/17 21:07

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0 Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0 Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1260 [1]	0.27	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		9/13/17 21:24
Decachlorobiphenyl [2]	69.9	30-150		9/13/17 21:24
Tetrachloro-m-xylene [1]	64.3	30-150		9/13/17 21:24
Tetrachloro-m-xylene [2]	66.1	30-150		9/13/17 21:24

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0 Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	0.11	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Acrylonitrile	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Disulfide	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		9/5/17 14:37
Toluene-d8	104	70-130		9/5/17 14:37
4-Bromofluorobenzene	99.8	70-130		9/5/17 14:37

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

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	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthylene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Aniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Aniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Anthracene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)anthracene	2.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)anthracene	2.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)pyrene	1.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)pyrene	1.8	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(b)fluoranthene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(b)fluoranthene	2.9	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(g,h,i)perylene	1.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(g,h,i)perylene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(k)fluoranthene	1.0	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(k)fluoranthene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethoxy)methane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethoxy)methane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroisopropyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Bromophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Bromophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Butylbenzylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Butylbenzylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Carbazole	0.53	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Carbazole	0.49	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloroaniline	ND	0.87	mg/Kg dry	1	L-04	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	2	L-04	SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloro-3-methylphenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chloronaphthalene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chloronaphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chlorophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chlorophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Chrysene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Chrysene	2.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	0.38	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenz(a,h)anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dibenzofuran	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenzofuran	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-butylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-butylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3,3-Dichlorobenzidine	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Diethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Diethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dimethylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dimethylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dimethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dimethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4,6-Dinitro-2-methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4,6-Dinitro-2-methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,6-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,6-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-octylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-octylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluoranthene	7.5	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluoranthene	6.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluorene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobutadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobutadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorocyclopentadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorocyclopentadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachloroethane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachloroethane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Isophorone	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Isophorone	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylnaphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3/4-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3/4-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Naphthalene	0.23	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Naphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Nitrobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Nitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitrophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitrophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodiphenylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodiphenylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodi-n-propylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodi-n-propylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachloronitrobenzene	ND	0.45	mg/Kg dry	1	V-16	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachloronitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenanthrene	4.1	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenanthrene	3.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyrene	6.9	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyrene	5.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyridine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyridine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4-Trichlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4-Trichlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,5-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,5-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,6-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,6-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.8	30-130		9/8/17 16:13

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		39.8	30-130					9/11/17 16:08	
Phenol-d6		47.3	30-130					9/8/17 16:13	
Phenol-d6		41.7	30-130					9/11/17 16:08	
Nitrobenzene-d5		50.2	30-130					9/8/17 16:13	
Nitrobenzene-d5		46.1	30-130					9/11/17 16:08	
2-Fluorobiphenyl		50.5	30-130					9/8/17 16:13	
2-Fluorobiphenyl		48.4	30-130					9/11/17 16:08	
2,4,6-Tribromophenol		49.2	30-130					9/8/17 16:13	
2,4,6-Tribromophenol		44.8	30-130					9/11/17 16:08	
p-Terphenyl-d14		63.4	30-130					9/8/17 16:13	
p-Terphenyl-d14		49.9	30-130					9/11/17 16:08	

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1254 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1260 [1]	2.4	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.6	30-150		9/14/17 5:27
Decachlorobiphenyl [2]	78.4	30-150		9/14/17 5:27
Tetrachloro-m-xylene [1]	64.7	30-150		9/14/17 5:27
Tetrachloro-m-xylene [2]	65.6	30-150		9/14/17 5:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	600	66	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/13/17 11:53	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.8	50-150		9/13/17 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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	30	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Arsenic	39	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Barium	430	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Cadmium	3.9	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Chromium	100	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Copper	310	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Lead	1400	0.98	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Mercury	0.21	0.033	mg/Kg dry	1		SW-846 7471B	9/6/17	9/7/17 14:15	TJK
Nickel	180	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Silver	ND	13	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Thallium	ND	65	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Vanadium	1400	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Zinc	1300	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15 Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1221 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1232 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1242 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1248 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1254 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1260 [2]	430	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1262 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1268 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/14/17 6:54
Decachlorobiphenyl [2]	*	30-150	S-01	9/14/17 6:54
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/14/17 6:54
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/14/17 6:54

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15 Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	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: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

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	0.18	0.10	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF

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: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

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	9/6/17	9/6/17 15:22	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		9/6/17 15:22
Toluene-d8	93.7	70-130		9/6/17 15:22
4-Bromofluorobenzene	88.7	70-130		9/6/17 15:22

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD

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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

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	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		9/8/17 11:01
Toluene-d8	103	70-130		9/8/17 11:01
4-Bromofluorobenzene	96.4	70-130		9/8/17 11:01

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

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
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.3	15-110		9/8/17 10:48
Phenol-d6	25.7	15-110		9/8/17 10:48
Nitrobenzene-d5	70.2	30-130		9/11/17 15:02
Nitrobenzene-d5	69.6	30-130		9/8/17 10:48
2-Fluorobiphenyl	70.6	30-130		9/8/17 10:48
2-Fluorobiphenyl	72.2	30-130		9/11/17 15:02
2,4,6-Tribromophenol	82.1	15-110		9/8/17 10:48
p-Terphenyl-d14	63.2	30-130		9/11/17 15:02
p-Terphenyl-d14	90.0	30-130		9/8/17 10:48

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

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	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.2	30-150		9/8/17 11:31
Decachlorobiphenyl [2]	60.4	30-150		9/8/17 11:31
Tetrachloro-m-xylene [1]	76.8	30-150		9/8/17 11:31
Tetrachloro-m-xylene [2]	75.7	30-150		9/8/17 11:31

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/7/17	9/12/17 19:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.8	50-150		9/12/17 19:15

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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: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/6/17	9/7/17 9:06	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD

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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
17H1675-14 [WS-AOC8-SE-25]	B185980	30.0	1.00	09/12/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185690	1000	1.00	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1675-01 [WS-AOC13-SO-33]	B185578	09/06/17
17H1675-02 [WS-AOC13-SO-34]	B185578	09/06/17
17H1675-03 [WS-AOC13-SO-35]	B185578	09/06/17
17H1675-04 [WS-AOC13-SO-36]	B185578	09/06/17
17H1675-05 [WS-AOC13-SO-37]	B185578	09/06/17
17H1675-06 [WS-AOC13-SO-38]	B185578	09/06/17
17H1675-07 [WS-AOC13-SO-39]	B185578	09/06/17
17H1675-08 [WS-AOC7-SO-17-0]	B185578	09/06/17
17H1675-09 [WS-AOC7-SO-18-0]	B185578	09/06/17
17H1675-10 [WS-AOC7-SO-19-0]	B185578	09/06/17
17H1675-11 [WS-AOC7-SO-20-0]	B185578	09/06/17
17H1675-12 [WS-AOC8-SO-3-0]	B185578	09/06/17
17H1675-13 [WS-AOC9-SO-45-0]	B185578	09/06/17
17H1675-14 [WS-AOC8-SE-25]	B185578	09/06/17
17H1675-15 [WS-AOC10-SE-15]	B185578	09/06/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185638	1.00	50.0	09/06/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185847	50.0	50.0	09/08/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185607	6.00	6.00	09/06/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185635	0.604	50.0	09/06/17

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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
17H1675-01 [WS-AOC13-SO-33]	B185858	10.3	10.0	09/08/17
17H1675-02 [WS-AOC13-SO-34]	B185858	10.4	10.0	09/08/17
17H1675-03 [WS-AOC13-SO-35]	B185858	10.3	10.0	09/08/17
17H1675-04 [WS-AOC13-SO-36]	B185858	10.4	10.0	09/08/17
17H1675-05 [WS-AOC13-SO-37]	B185858	10.2	10.0	09/08/17
17H1675-06 [WS-AOC13-SO-38]	B185858	10.0	10.0	09/08/17
17H1675-07 [WS-AOC13-SO-39]	B185858	10.0	10.0	09/08/17
17H1675-08 [WS-AOC7-SO-17-0]	B185858	10.0	10.0	09/08/17
17H1675-09 [WS-AOC7-SO-18-0]	B185858	10.3	10.0	09/08/17
17H1675-10 [WS-AOC7-SO-19-0]	B185858	10.4	10.0	09/08/17
17H1675-11 [WS-AOC7-SO-20-0]	B185858	10.1	10.0	09/08/17
17H1675-12 [WS-AOC8-SO-3-0]	B185858	10.0	10.0	09/08/17
17H1675-13 [WS-AOC9-SO-45-0]	B185858	10.1	10.0	09/08/17
17H1675-14 [WS-AOC8-SE-25]	B185858	10.1	10.0	09/08/17
17H1675-15 [WS-AOC10-SE-15]	B185858	10.3	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185770	950	9.00	09/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185515	5.92	10.0	09/05/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-16 [Trip Blank]	B185582	5.00	10.0	09/06/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185788	5	5.00	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17
17H1675-14RE1 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185689	1000	1.00	09/07/17

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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 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185949	1000	1.00	09/07/17

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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 B185515 - SW-846 5035										
Blank (B185515-BLK1)				Prepared & Analyzed: 09/05/17						
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 B185515 - SW-846 5035										
Blank (B185515-BLK1)				Prepared & Analyzed: 09/05/17						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
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	*0.0582*		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	*0.0530*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B185515-BS1)				Prepared & Analyzed: 09/05/17						
Acetone	0.197	0.10	mg/Kg wet	0.200		98.4	70-130			
Acrylonitrile	0.0233	0.0060	mg/Kg wet	0.0200		117	70-130			
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Bromobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130			
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Bromoform	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		103	70-130			
2-Butanone (MEK)	0.225	0.040	mg/Kg wet	0.200		113	70-130			
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.229	0.0060	mg/Kg wet	0.200		114	70-130			
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Chlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.6	70-130			
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		95.9	70-130			
Chloromethane	0.0220	0.010	mg/Kg wet	0.0200		110	70-130			
2-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
4-Chlorotoluene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,2-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,3-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
trans-1,4-Dichloro-2-butene	0.0189	0.0040	mg/Kg wet	0.0200		94.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.3	70-130			
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1-Dichloroethylene	0.0216	0.0040	mg/Kg wet	0.0200		108	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 B185515 - SW-846 5035										
LCS (B185515-BS1)				Prepared & Analyzed: 09/05/17						
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130			
1,2-Dichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130			
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
trans-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Ethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Hexachlorobutadiene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-130			
Isopropylbenzene (Cumene)	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		98.1	70-130			
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	70-130			
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-130			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
n-Propylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
Styrene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0158	0.010	mg/Kg wet	0.0200		79.2	70-130			V-16
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,2,4-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Trichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0255	0.010	mg/Kg wet	0.0200		128	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0233	0.010	mg/Kg wet	0.0200		117	70-130			
1,2,4-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3,5-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Vinyl Chloride	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.0	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0555*		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	*0.0527*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0496*		mg/Kg wet	0.0500		99.1	70-130			
Batch B185582 - SW-846 5035										
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17						
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							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035										
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17						
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							
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							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035											
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17							
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	*0.0474*		mg/Kg wet	0.0500		94.9		70-130			
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		96.1		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0457*		mg/Kg wet	0.0500		91.3		70-130			
LCS (B185582-BS1)				Prepared & Analyzed: 09/06/17							
Acetone	0.136	0.10	mg/Kg wet	0.200		**68.0**	*	70-130			
Acrylonitrile	0.0193	0.0060	mg/Kg wet	0.0200		96.3		70-130			
Benzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130			
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130			
Bromodichloromethane	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130			
Bromomethane	0.0232	0.010	mg/Kg wet	0.0200		116		70-130			
2-Butanone (MEK)	0.171	0.040	mg/Kg wet	0.200		85.5		70-130			
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130			
sec-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130			
Carbon Disulfide	0.203	0.0060	mg/Kg wet	0.200		102		70-130			
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130			
Chlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130			
Chloroethane	0.0202	0.020	mg/Kg wet	0.0200		101		70-130			
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104		70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.7		70-130			
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130			
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130			
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130			
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130			
trans-1,4-Dichloro-2-butene	0.0188	0.0040	mg/Kg wet	0.0200		93.9		70-130			
Dichlorodifluoromethane (Freon 12)	0.0212	0.020	mg/Kg wet	0.0200		106		70-130			
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			
1,2-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130			
1,1-Dichloroethylene	0.0199	0.0040	mg/Kg wet	0.0200		99.5		70-130			
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130			
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130			
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130			
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.7		70-130			
1,1-Dichloropropene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130			
cis-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107		70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.6		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 B185582 - SW-846 5035										
LCS (B185582-BS1)				Prepared & Analyzed: 09/06/17						
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)	0.191	0.020	mg/Kg wet	0.200		95.7	70-130			
Isopropylbenzene (Cumene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg wet	0.0200		94.4	70-130			
Methylene Chloride	0.0215	0.020	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		106	70-130			
Naphthalene	0.0165	0.0040	mg/Kg wet	0.0200		82.3	70-130			
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Styrene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,1,2-Tetrachloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Tetrachloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0201	0.010	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,2,4-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,1,1-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,3-Trichloropropane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3,5-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130			
m+p Xylene	0.0427	0.0040	mg/Kg wet	0.0400		107	70-130			
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0457*		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	*0.0471*		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.0500		97.3	70-130			
Batch B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	5.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							

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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 B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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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 B185788 - SW-846 5030B											
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17							
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*29.6*		µg/L	25.0		118		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101		70-130			
LCS (B185788-BS1)				Prepared & Analyzed: 09/08/17							
Acetone	86.8	10	µg/L	100		86.8		70-130			
Acrylonitrile	10.2	2.0	µg/L	10.0		102		70-130			
Benzene	11.0	0.50	µg/L	10.0		110		70-130			
Bromobenzene	10.3	0.50	µg/L	10.0		103		70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.0		116		70-130			
Bromoform	9.84	0.50	µg/L	10.0		98.4		70-130			
Bromomethane	11.7	5.0	µg/L	10.0		117		70-130			
2-Butanone (MEK)	95.2	5.0	µg/L	100		95.2		70-130			
n-Butylbenzene	11.6	1.0	µg/L	10.0		116		70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130			
Carbon Disulfide	121	5.0	µg/L	100		121		70-130			
Carbon Tetrachloride	12.5	0.50	µg/L	10.0		125		70-130			
Chlorobenzene	10.2	0.50	µg/L	10.0		102		70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111		70-130			
Chloroethane	9.80	0.50	µg/L	10.0		98.0		70-130			
Chloroform	11.6	0.50	µg/L	10.0		116		70-130			
Chloromethane	7.70	0.60	µg/L	10.0		77.0		70-130			
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109		70-130			
4-Chlorotoluene	10.9	0.50	µg/L	10.0		109		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.9	1.0	µg/L	10.0		119		70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130			
Dibromomethane	11.1	0.50	µg/L	10.0		111		70-130			
1,2-Dichlorobenzene	10.1	0.50	µg/L	10.0		101		70-130			
1,3-Dichlorobenzene	10.3	0.50	µg/L	10.0		103		70-130			
1,4-Dichlorobenzene	10.0	0.50	µg/L	10.0		100		70-130			
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100		70-130			
Dichlorodifluoromethane (Freon 12)	11.9	0.50	µg/L	10.0		119		70-130			
1,1-Dichloroethane	10.8	0.50	µg/L	10.0		108		70-130			
1,2-Dichloroethane	11.9	0.50	µg/L	10.0		119		70-130			
1,1-Dichloroethylene	10.8	0.50	µg/L	10.0		108		70-130			
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110		70-130			
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130			
1,2-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110		70-130			
2,2-Dichloropropane	13.9	0.50	µg/L	10.0		**139**	*	70-130			L-01, V-20
1,1-Dichloropropene	11.8	0.50	µg/L	10.0		118		70-130			
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113		70-130			
trans-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117		70-130			
Ethylbenzene	10.6	0.50	µg/L	10.0		106		70-130			
Hexachlorobutadiene	12.5	0.60	µg/L	10.0		125		70-130			
2-Hexanone (MBK)	99.6	5.0	µg/L	100		99.6		70-130			
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104		70-130			
p-Isopropyltoluene (p-Cymene)	11.3	0.50	µg/L	10.0		113		70-130			
Methyl tert-Butyl Ether (MTBE)	11.5	0.50	µg/L	10.0		115		70-130			
Methylene Chloride	9.44	5.0	µg/L	10.0		94.4		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 B185788 - SW-846 5030B										
LCS (B185788-BS1)				Prepared & Analyzed: 09/08/17						
4-Methyl-2-pentanone (MIBK)	98.9	5.0	µg/L	100		98.9	70-130			
Naphthalene	9.28	2.0	µg/L	10.0		92.8	70-130			
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	8.44	10	µg/L	10.0		84.4	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	10.6	2.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1-Trichloroethane	12.4	0.50	µg/L	10.0		124	70-130			
1,1,2-Trichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Trichlorofluoromethane (Freon 11)	12.2	2.0	µg/L	10.0		122	70-130			
1,2,3-Trichloropropane	11.6	0.50	µg/L	10.0		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	0.50	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
Vinyl Chloride	9.03	1.0	µg/L	10.0		90.3	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	*26.1*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	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 B185658 - SW-846 3546										
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B185658 - SW-846 3546												
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.34*		mg/Kg wet	6.67		65.2		30-130				
Surrogate: Phenol-d6	*4.66*		mg/Kg wet	6.67		69.9		30-130				
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.14*		mg/Kg wet	6.67		107		30-130				
Surrogate: p-Terphenyl-d14	*3.28*		mg/Kg wet	3.33		98.5		30-130				
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17								
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.6		40-140				
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140				
Aniline	0.727	0.34	mg/Kg wet	1.67		43.6		40-140				†
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140				
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140				
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9		40-140				
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140				
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140				
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0		40-140				
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.0		40-140				
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.8		40-140				
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.9		40-140				
Bis(2-Ethylhexyl)phthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140				
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.1		40-140				
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		74.0		40-140				
Carbazole	1.11	0.17	mg/Kg wet	1.67		66.8		40-140				
4-Chloroaniline	0.586	0.66	mg/Kg wet	1.67		**35.2**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		75.2		30-130				
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.67		68.0		40-140				
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.3		30-130				
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.7		40-140				
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.4		40-140				
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140				
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9		40-140				
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.3		40-140				†
2,4-Dichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8		30-130				
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.7		40-140				
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130				
Dimethylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5		40-140				
4,6-Dinitro-2-methylphenol	0.841	0.34	mg/Kg wet	1.67		50.5		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 B185658 - SW-846 3546										
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
2,4-Dinitrophenol	0.627	0.66	mg/Kg wet	1.67		37.6	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Hexachlorobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
Hexachlorocyclopentadiene	0.821	0.34	mg/Kg wet	1.67		49.3	30-140			V-05
Hexachloroethane	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
Isophorone	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3	30-130			
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
2-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			
3-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			†
4-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130			
4-Nitrophenol	1.66	0.66	mg/Kg wet	1.67		99.4	10-130			
N-Nitrosodiphenylamine	1.49	0.34	mg/Kg wet	1.67		89.4	40-140			
N-Nitrosodi-n-propylamine	1.21	0.34	mg/Kg wet	1.67		72.7	40-140			
Pentachloronitrobenzene	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			V-16
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.3	30-130			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Phenol	1.21	0.34	mg/Kg wet	1.67		72.6	20-130			
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Pyridine	0.665	0.34	mg/Kg wet	1.67		39.9	10-140			†
1,2,4,5-Tetrachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
1,2,4-Trichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.6	40-140			
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.1	30-130			
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Surrogate: 2-Fluorophenol	*5.00*		mg/Kg wet	6.67		75.1	30-130			
Surrogate: Phenol-d6	*5.23*		mg/Kg wet	6.67		78.4	30-130			
Surrogate: Nitrobenzene-d5	*2.56*		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.61*		mg/Kg wet	3.33		78.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.30*		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	*2.92*		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	1.16	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.190	30	
Aniline	0.714	0.34	mg/Kg wet	1.67		42.8	40-140	1.90	50	† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	3.36	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	2.08	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	1.76	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	0.993	30	
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.0335	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	0.352	30	
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	0.293	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B185658 - SW-846 3546												
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17								
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1		40-140	5.03	30		
Bis(2-chloroisopropyl)ether	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	2.29	30		
Bis(2-Ethylhexyl)phthalate	1.19	0.34	mg/Kg wet	1.67		71.2		40-140	0.309	30		
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		78.3		40-140	2.35	30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.0		40-140	1.31	30		
Carbazole	1.08	0.17	mg/Kg wet	1.67		64.6		40-140	3.41	30		
4-Chloroaniline	0.576	0.66	mg/Kg wet	1.67		**34.5**	*	40-140	1.84	30	L-04	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.5		30-130	0.935	30		
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.3		40-140	1.00	30		
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4		30-130	0.117	30		
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.0		40-140	5.02	30		
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140	1.35	30		
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		65.1		40-140	7.36	30		
Dibenzofuran	1.17	0.34	mg/Kg wet	1.67		70.2		40-140	0.483	30		
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	0.203	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.0		40-140	6.38	30		† ‡
2,4-Dichlorophenol	1.25	0.34	mg/Kg wet	1.67		75.2		30-130	0.742	30		
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.4		40-140	0.456	30		
2,4-Dimethylphenol	1.19	0.34	mg/Kg wet	1.67		71.2		30-130	2.88	30		
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5		40-140	2.71	50		
4,6-Dinitro-2-methylphenol	0.802	0.34	mg/Kg wet	1.67		48.1		30-130	4.71	50		
2,4-Dinitrophenol	0.583	0.66	mg/Kg wet	1.67		35.0		30-130	7.22	50		
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	3.07	30		
2,6-Dinitrotoluene	1.31	0.34	mg/Kg wet	1.67		78.9		40-140	1.36	30		
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	0.275	30		
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.7		40-140	1.64	30		
Fluorene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140	2.29	30		
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4		40-140	2.91	30		
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4		40-140	1.25	30		
Hexachlorocyclopentadiene	0.828	0.34	mg/Kg wet	1.67		49.7		30-140	0.809	50	V-05	
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.9		40-140	1.99	50		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	0.384	50		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.1		40-140	0.390	30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6		40-140	1.83	30		
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.9		30-130	2.55	30		
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	2.17	30		
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3		40-140	1.35	30		
2-Nitroaniline	1.31	0.34	mg/Kg wet	1.67		78.5		40-140	2.59	30		
3-Nitroaniline	0.939	0.34	mg/Kg wet	1.67		56.4		40-140	8.01	30		†
4-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	4.50	30		
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140	0.336	30		
2-Nitrophenol	1.17	0.34	mg/Kg wet	1.67		70.4		30-130	2.62	30		
4-Nitrophenol	1.60	0.66	mg/Kg wet	1.67		96.0		10-130	3.44	50		‡
N-Nitrosodiphenylamine	1.44	0.34	mg/Kg wet	1.67		86.4		40-140	3.50	30		
N-Nitrosodi-n-propylamine	1.23	0.34	mg/Kg wet	1.67		74.0		40-140	1.85	30		
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.1		40-140	1.91	30	V-16	
Pentachlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0		30-130	3.86	50		
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.0		40-140	3.81	30		
Phenol	1.21	0.34	mg/Kg wet	1.67		72.5		20-130	0.0827	30		
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140	2.66	30		
Pyridine	0.657	0.34	mg/Kg wet	1.67		39.4		10-140	1.16	50		†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9		40-140	2.88	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
1,2,4-Trichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140	0.823	30	
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.4	30-130	0.323	30	
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130	2.33	50	
Surrogate: 2-Fluorophenol	*5.14*		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	*5.30*		mg/Kg wet	6.67		79.5	30-130			
Surrogate: Nitrobenzene-d5	*2.67*		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.67*		mg/Kg wet	3.33		80.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.25*		mg/Kg wet	6.67		109	30-130			
Surrogate: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		87.1	30-130			
Batch B185689 - SW-846 3510C										
Blank (B185689-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aniline	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	2.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							

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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 B185689 - SW-846 3510C											
Blank (B185689-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Pentachloronitrobenzene	ND	10	µg/L							V-16	
Pentachlorophenol	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyridine	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*84.5*		µg/L	200		42.3	15-110				
Surrogate: Phenol-d6	*52.2*		µg/L	200		26.1	15-110				
Surrogate: Nitrobenzene-d5	*71.0*		µg/L	100		71.0	30-130				
Surrogate: 2-Fluorobiphenyl	*70.4*		µg/L	100		70.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*161*		µg/L	200		80.7	15-110				
Surrogate: p-Terphenyl-d14	*87.1*		µg/L	100		87.1	30-130				
LCS (B185689-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Aniline	57.9	5.0	µg/L	100		57.9	40-140				†
Bis(2-chloroethoxy)methane	69.3	10	µg/L	100		69.3	40-140				
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140				
Bis(2-chloroisopropyl)ether	60.8	10	µg/L	100		60.8	40-140				
Bis(2-Ethylhexyl)phthalate	86.7	10	µg/L	100		86.7	40-140				
4-Bromophenylphenylether	74.9	10	µg/L	100		74.9	40-140				
Butylbenzylphthalate	80.6	10	µg/L	100		80.6	40-140				
Carbazole	72.6	10	µg/L	100		72.6	40-140				
4-Chloroaniline	71.6	10	µg/L	100		71.6	40-140				†
4-Chloro-3-methylphenol	74.0	10	µg/L	100		74.0	30-130				
2-Chloronaphthalene	58.8	10	µg/L	100		58.8	40-140				
2-Chlorophenol	61.9	10	µg/L	100		61.9	30-130				
4-Chlorophenylphenylether	71.4	10	µg/L	100		71.4	40-140				
Dibenzofuran	66.8	5.0	µg/L	100		66.8	40-140				
Di-n-butylphthalate	83.9	10	µg/L	100		83.9	40-140				
3,3-Dichlorobenzidine	118	10	µg/L	100		118	40-140				†
2,4-Dichlorophenol	70.3	10	µg/L	100		70.3	30-130				
Diethylphthalate	75.5	10	µg/L	100		75.5	40-140				
2,4-Dimethylphenol	76.5	10	µg/L	100		76.5	30-130				
Dimethylphthalate	71.1	10	µg/L	100		71.1	40-140				
4,6-Dinitro-2-methylphenol	66.0	10	µg/L	100		66.0	30-130				
2,4-Dinitrophenol	52.7	10	µg/L	100		52.7	30-130				
2,4-Dinitrotoluene	66.5	10	µg/L	100		66.5	40-140				
2,6-Dinitrotoluene	69.4	10	µg/L	100		69.4	40-140				
Di-n-octylphthalate	79.3	10	µg/L	100		79.3	40-140				
Hexachlorobenzene	71.4	10	µg/L	100		71.4	40-140				
Hexachlorobutadiene	80.0	10	µg/L	100		80.0	40-140				
Hexachlorocyclopentadiene	42.9	10	µg/L	100		42.9	30-140			V-05	
Hexachloroethane	67.8	10	µg/L	100		67.8	40-140				
Isophorone	71.9	10	µg/L	100		71.9	40-140				
2-Methylphenol	51.3	10	µg/L	100		51.3	30-130				
3/4-Methylphenol	52.7	10	µg/L	100		52.7	30-130				
2-Nitroaniline	72.9	10	µg/L	100		72.9	40-140				
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140				†
4-Nitroaniline	70.0	10	µg/L	100		70.0	40-140				
Nitrobenzene	68.8	10	µg/L	100		68.8	40-140				

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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 B185689 - SW-846 3510C											
LCS (B185689-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17							
2-Nitrophenol	69.3	10	µg/L	100		69.3	30-130				
4-Nitrophenol	37.7	10	µg/L	100		37.7	10-130				
N-Nitrosodiphenylamine	92.0	10	µg/L	100		92.0	40-140				
N-Nitrosodi-n-propylamine	66.6	10	µg/L	100		66.6	40-140				
Pentachloronitrobenzene	80.9	10	µg/L	100		80.9	40-140			V-16	
Pentachlorophenol	54.8	10	µg/L	100		54.8	30-130				
Phenol	27.5	10	µg/L	100		27.5	20-130				
Pyridine	25.4	5.0	µg/L	100		25.4	10-140				†
1,2,4,5-Tetrachlorobenzene	72.1	10	µg/L	100		72.1	40-140				
1,2,4-Trichlorobenzene	67.1	5.0	µg/L	100		67.1	40-140				
2,4,5-Trichlorophenol	65.6	10	µg/L	100		65.6	30-130				
2,4,6-Trichlorophenol	70.0	10	µg/L	100		70.0	30-130				
Surrogate: 2-Fluorophenol	*95.9*		µg/L	200		48.0	15-110				
Surrogate: Phenol-d6	*65.7*		µg/L	200		32.8	15-110				
Surrogate: Nitrobenzene-d5	*80.3*		µg/L	100		80.3	30-130				
Surrogate: 2-Fluorobiphenyl	*74.7*		µg/L	100		74.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*163*		µg/L	200		81.6	15-110				
Surrogate: p-Terphenyl-d14	*80.2*		µg/L	100		80.2	30-130				
LCS Dup (B185689-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Aniline	58.7	5.0	µg/L	100		58.7	40-140	1.42	50		† ‡
Bis(2-chloroethoxy)methane	68.3	10	µg/L	100		68.3	40-140	1.48	20		
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140	0.0296	20		
Bis(2-chloroisopropyl)ether	60.5	10	µg/L	100		60.5	40-140	0.429	20		
Bis(2-Ethylhexyl)phthalate	84.7	10	µg/L	100		84.7	40-140	2.30	20		
4-Bromophenylphenylether	73.2	10	µg/L	100		73.2	40-140	2.19	20		
Butylbenzylphthalate	78.8	10	µg/L	100		78.8	40-140	2.17	20		
Carbazole	70.4	10	µg/L	100		70.4	40-140	3.08	20		
4-Chloroaniline	73.1	10	µg/L	100		73.1	40-140	2.06	20		†
4-Chloro-3-methylphenol	72.8	10	µg/L	100		72.8	30-130	1.68	20		
2-Chloronaphthalene	59.2	10	µg/L	100		59.2	40-140	0.695	20		
2-Chlorophenol	59.5	10	µg/L	100		59.5	30-130	4.07	20		
4-Chlorophenylphenylether	69.3	10	µg/L	100		69.3	40-140	3.06	20		
Dibenzofuran	65.6	5.0	µg/L	100		65.6	40-140	1.81	20		
Di-n-butylphthalate	83.5	10	µg/L	100		83.5	40-140	0.394	20		
3,3-Dichlorobenzidine	114	10	µg/L	100		114	40-140	3.84	20		† ‡
2,4-Dichlorophenol	68.6	10	µg/L	100		68.6	30-130	2.39	20		
Diethylphthalate	76.1	10	µg/L	100		76.1	40-140	0.818	20		
2,4-Dimethylphenol	74.3	10	µg/L	100		74.3	30-130	2.82	20		
Dimethylphthalate	69.3	10	µg/L	100		69.3	40-140	2.55	50		
4,6-Dinitro-2-methylphenol	65.0	10	µg/L	100		65.0	30-130	1.50	50		
2,4-Dinitrophenol	51.3	10	µg/L	100		51.3	30-130	2.69	50		
2,4-Dinitrotoluene	65.2	10	µg/L	100		65.2	40-140	1.94	20		
2,6-Dinitrotoluene	68.0	10	µg/L	100		68.0	40-140	2.12	20		
Di-n-octylphthalate	78.0	10	µg/L	100		78.0	40-140	1.58	20		
Hexachlorobenzene	70.8	10	µg/L	100		70.8	40-140	0.774	20		
Hexachlorobutadiene	75.9	10	µg/L	100		75.9	40-140	5.28	20		
Hexachlorocyclopentadiene	39.5	10	µg/L	100		39.5	30-140	8.15	50	V-05	
Hexachloroethane	65.4	10	µg/L	100		65.4	40-140	3.48	50		
Isophorone	71.4	10	µg/L	100		71.4	40-140	0.726	20		
2-Methylphenol	49.9	10	µg/L	100		49.9	30-130	2.63	20		
3/4-Methylphenol	50.9	10	µg/L	100		50.9	30-130	3.55	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185689 - SW-846 3510C											
LCS Dup (B185689-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17							
2-Nitroaniline	72.3	10	µg/L	100		72.3	40-140	0.771	20		
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140	0.0310	20		†
4-Nitroaniline	69.5	10	µg/L	100		69.5	40-140	0.702	20		
Nitrobenzene	68.1	10	µg/L	100		68.1	40-140	0.950	20		
2-Nitrophenol	62.5	10	µg/L	100		62.5	30-130	10.3	20		
4-Nitrophenol	35.6	10	µg/L	100		35.6	10-130	5.81	50		‡
N-Nitrosodiphenylamine	91.1	10	µg/L	100		91.1	40-140	0.929	20		
N-Nitrosodi-n-propylamine	65.6	10	µg/L	100		65.6	40-140	1.39	20		
Pentachloronitrobenzene	78.5	10	µg/L	100		78.5	40-140	3.01	20	V-16	
Pentachlorophenol	50.6	10	µg/L	100		50.6	30-130	7.97	50		
Phenol	28.5	10	µg/L	100		28.5	20-130	3.46	20		
Pyridine	26.9	5.0	µg/L	100		26.9	10-140	5.85	50		†
1,2,4,5-Tetrachlorobenzene	69.0	10	µg/L	100		69.0	40-140	4.36	20		
1,2,4-Trichlorobenzene	65.3	5.0	µg/L	100		65.3	40-140	2.73	20		
2,4,5-Trichlorophenol	64.4	10	µg/L	100		64.4	30-130	1.86	20		
2,4,6-Trichlorophenol	67.4	10	µg/L	100		67.4	30-130	3.81	50		
Surrogate: 2-Fluorophenol	*90.3*		µg/L	200		45.1	15-110				
Surrogate: Phenol-d6	*60.6*		µg/L	200		30.3	15-110				
Surrogate: Nitrobenzene-d5	*78.6*		µg/L	100		78.6	30-130				
Surrogate: 2-Fluorobiphenyl	*70.5*		µg/L	100		70.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*156*		µg/L	200		77.8	15-110				
Surrogate: p-Terphenyl-d14	*77.5*		µg/L	100		77.5	30-130				
Batch B185949 - SW-846 3510C											
Blank (B185949-BLK1)				Prepared: 09/07/17 Analyzed: 09/11/17							
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	*80.4*		µg/L	100		80.4	30-130				
Surrogate: 2-Fluorobiphenyl	*79.4*		µg/L	100		79.4	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 B185949 - SW-846 3510C										
LCS (B185949-BS1)				Prepared: 09/07/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	80.8	7.5	µg/L	100		80.8	40-140			
Acenaphthylene (SIM)	78.7	7.5	µg/L	100		78.7	40-140			
Anthracene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
Benzo(a)anthracene (SIM)	82.6	1.2	µg/L	100		82.6	40-140			
Benzo(a)pyrene (SIM)	90.1	2.5	µg/L	100		90.1	40-140			
Benzo(b)fluoranthene (SIM)	90.1	1.2	µg/L	100		90.1	40-140			
Benzo(g,h,i)perylene (SIM)	83.4	12	µg/L	100		83.4	40-140			
Benzo(k)fluoranthene (SIM)	86.8	5.0	µg/L	100		86.8	40-140			
Chrysene (SIM)	81.9	5.0	µg/L	100		81.9	40-140			
Dibenz(a,h)anthracene (SIM)	85.3	5.0	µg/L	100		85.3	40-140			
Fluoranthene (SIM)	85.0	12	µg/L	100		85.0	40-140			
Fluorene (SIM)	83.5	25	µg/L	100		83.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
2-Methylnaphthalene (SIM)	77.6	25	µg/L	100		77.6	40-140			
Naphthalene (SIM)	74.3	25	µg/L	100		74.3	40-140			
Phenanthrene (SIM)	81.7	1.2	µg/L	100		81.7	40-140			
Pyrene (SIM)	80.8	25	µg/L	100		80.8	40-140			
Surrogate: Nitrobenzene-d5	*87.8*		µg/L	100		87.8	30-130			
Surrogate: 2-Fluorobiphenyl	*91.0*		µg/L	100		91.0	30-130			
Surrogate: p-Terphenyl-d14	*77.4*		µg/L	100		77.4	30-130			
LCS Dup (B185949-BSD1)				Prepared: 09/07/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	85.0	7.5	µg/L	100		85.0	40-140	4.95	20	
Acenaphthylene (SIM)	82.4	7.5	µg/L	100		82.4	40-140	4.56	20	
Anthracene (SIM)	88.3	5.0	µg/L	100		88.3	40-140	4.02	20	
Benzo(a)anthracene (SIM)	86.1	1.2	µg/L	100		86.1	40-140	4.12	20	
Benzo(a)pyrene (SIM)	94.3	2.5	µg/L	100		94.3	40-140	4.50	20	
Benzo(b)fluoranthene (SIM)	93.6	1.2	µg/L	100		93.6	40-140	3.78	20	
Benzo(g,h,i)perylene (SIM)	88.5	12	µg/L	100		88.5	40-140	5.87	20	
Benzo(k)fluoranthene (SIM)	90.4	5.0	µg/L	100		90.4	40-140	4.01	20	
Chrysene (SIM)	86.0	5.0	µg/L	100		86.0	40-140	4.80	20	
Dibenz(a,h)anthracene (SIM)	90.9	5.0	µg/L	100		90.9	40-140	6.38	20	
Fluoranthene (SIM)	89.0	12	µg/L	100		89.0	40-140	4.62	20	
Fluorene (SIM)	87.9	25	µg/L	100		87.9	40-140	5.19	20	
Indeno(1,2,3-cd)pyrene (SIM)	90.3	5.0	µg/L	100		90.3	40-140	6.20	20	‡
2-Methylnaphthalene (SIM)	81.5	25	µg/L	100		81.5	40-140	4.93	20	
Naphthalene (SIM)	77.7	25	µg/L	100		77.7	40-140	4.54	20	
Phenanthrene (SIM)	84.3	1.2	µg/L	100		84.3	40-140	3.10	20	
Pyrene (SIM)	84.4	25	µg/L	100		84.4	40-140	4.30	20	
Surrogate: Nitrobenzene-d5	*85.6*		µg/L	100		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	*89.8*		µg/L	100		89.8	30-130			
Surrogate: p-Terphenyl-d14	*71.8*		µg/L	100		71.8	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 B185770 - SW-846 3510C										
Blank (B185770-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*2.07*		µg/L	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.21*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.86*		µg/L	2.00		93.0	30-150			
LCS (B185770-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	0.49	0.20	µg/L	0.500		97.3	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		98.3	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140			
Surrogate: Decachlorobiphenyl	*1.95*		µg/L	2.00		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.09*		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.82*		µg/L	2.00		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.80*		µg/L	2.00		89.9	30-150			
LCS Dup (B185770-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		103	40-140	6.09	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		111	40-140	2.48	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		99.5	40-140	1.25	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.8	40-140	1.49	20	
Surrogate: Decachlorobiphenyl	*2.03*		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.20*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.89*		µg/L	2.00		94.7	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 B185858 - SW-846 3540C										
Blank (B185858-BLK1)				Prepared: 09/08/17 Analyzed: 09/13/17						
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	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.8	30-150			
LCS (B185858-BS1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.7	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.8	40-140			
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			
LCS Dup (B185858-BSD1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.2	40-140	2.73	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	2.79	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	1.51	30	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185858 - SW-846 3540C										
Matrix Spike (B185858-MS1)		**Source: 17H1675-01**		Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.24	0.087	mg/Kg dry	0.217	ND	109	40-140			
Aroclor-1016 [2C]	0.23	0.087	mg/Kg dry	0.217	ND	107	40-140			
Aroclor-1260	0.41	0.087	mg/Kg dry	0.217	0.16	116	40-140			
Aroclor-1260 [2C]	0.39	0.087	mg/Kg dry	0.217	0.17	103	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.217		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg dry	0.217		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg dry	0.217		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.217		98.0	30-150			
Matrix Spike Dup (B185858-MSD1)		**Source: 17H1675-01**		Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.24	0.088	mg/Kg dry	0.219	ND	109	40-140	0.804	50	
Aroclor-1016 [2C]	0.23	0.088	mg/Kg dry	0.219	ND	106	40-140	0.00359	50	
Aroclor-1260	0.38	0.088	mg/Kg dry	0.219	0.16	101	40-140	7.97	50	
Aroclor-1260 [2C]	0.37	0.088	mg/Kg dry	0.219	0.17	90.6	40-140	6.48	50	
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg dry	0.219		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.219		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg dry	0.219		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.219		94.6	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185690 - SW-846 3510C										
Blank (B185690-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0970*		mg/L	0.100		97.0	50-150			
LCS (B185690-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.772	0.075	mg/L	1.00		77.2	60-120			
Surrogate: o-Terphenyl	*0.0991*		mg/L	0.100		99.1	50-150			
LCS Dup (B185690-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.750	0.075	mg/L	1.00		75.0	60-120	2.84	30	
Surrogate: o-Terphenyl	*0.0956*		mg/L	0.100		95.6	50-150			
Batch B185980 - SW-846 3546										
Blank (B185980-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B185980-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	*3.35*		mg/Kg wet	3.33		100	50-150			
LCS Dup (B185980-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	23.7	10	mg/Kg wet	33.3		71.1	60-120	5.91	30	
Surrogate: o-Terphenyl	*3.16*		mg/Kg wet	3.33		94.7	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185607 - SW-846 7470A Prep										
Blank (B185607-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.00010	mg/L							
LCS (B185607-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00173	0.00010	mg/L	0.00200		86.4	80-120			
LCS Dup (B185607-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00161	0.00010	mg/L	0.00200		80.6	80-120	6.90	20	
Batch B185635 - SW-846 7471										
Blank (B185635-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B185635-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.2	1.9	mg/Kg wet	9.36		109	73.7-126.3			
LCS Dup (B185635-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	0.571	30	
Batch B185638 - SW-846 3050B										
Blank (B185638-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B185638-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	59.9	5.1	mg/Kg wet	146		41.0	0-210.3			
Arsenic	143	5.1	mg/Kg wet	157		90.9	77.8-122.1			
Barium	316	5.1	mg/Kg wet	339		93.3	82-117.4			
Beryllium	55.8	0.51	mg/Kg wet	58.3		95.8	82.3-117.7			
Cadmium	188	0.51	mg/Kg wet	216		86.9	81.9-118.2			
Chromium	84.5	1.0	mg/Kg wet	88.9		95.1	78.7-120.6			
Copper	183	1.0	mg/Kg wet	184		99.6	80.4-119.6			
Lead	91.0	1.5	mg/Kg wet	94.3		96.4	82.4-117.8			
Nickel	137	1.0	mg/Kg wet	154		88.8	82.2-117.8			
Selenium	186	10	mg/Kg wet	207		89.7	77.1-122.3			
Silver	41.4	1.0	mg/Kg wet	43.8		94.6	74.3-125.4			
Thallium	146	5.1	mg/Kg wet	167		87.6	78.2-121.6			
Vanadium	86.1	2.0	mg/Kg wet	100		86.1	64.8-135.2			
Zinc	188	2.0	mg/Kg wet	209		89.9	79.7-120.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185638 - SW-846 3050B										
LCS Dup (B185638-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	54.4	5.0	mg/Kg wet	146		37.2	0-210.3	9.75	30	
Arsenic	142	5.0	mg/Kg wet	157		90.5	77.8-122.1	0.506	30	
Barium	311	5.0	mg/Kg wet	339		91.7	82-117.4	1.65	30	
Beryllium	54.6	0.50	mg/Kg wet	58.3		93.6	82.3-117.7	2.24	30	
Cadmium	187	0.50	mg/Kg wet	216		86.4	81.9-118.2	0.524	30	
Chromium	82.9	1.0	mg/Kg wet	88.9		93.2	78.7-120.6	1.95	30	
Copper	178	1.0	mg/Kg wet	184		96.6	80.4-119.6	3.08	30	
Lead	90.7	1.5	mg/Kg wet	94.3		96.1	82.4-117.8	0.323	30	
Nickel	134	1.0	mg/Kg wet	154		87.1	82.2-117.8	1.92	30	
Selenium	188	10	mg/Kg wet	207		90.8	77.1-122.3	1.18	30	
Silver	40.8	1.0	mg/Kg wet	43.8		93.2	74.3-125.4	1.51	30	
Thallium	146	5.0	mg/Kg wet	167		87.7	78.2-121.6	0.122	30	
Vanadium	85.7	2.0	mg/Kg wet	100		85.7	64.8-135.2	0.423	30	
Zinc	185	2.0	mg/Kg wet	209		88.7	79.7-120.8	1.42	30	
MRL Check (B185638-MRL1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Lead	0.595	0.72	mg/Kg wet	0.719		82.8	80-120			
Batch B185847 - SW-846 3005A										
Blank (B185847-BLK1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B185847-BS1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	258	5.0	µg/L	250		103	80-120			
Arsenic	259	2.0	µg/L	250		104	80-120			
Barium	256	50	µg/L	250		102	80-120			
Beryllium	245	2.0	µg/L	250		97.8	80-120			
Cadmium	254	2.5	µg/L	250		102	80-120			
Chromium	254	5.0	µg/L	250		101	80-120			
Copper	257	25	µg/L	250		103	80-120			
Lead	245	5.0	µg/L	250		97.9	80-120			
Nickel	257	25	µg/L	250		103	80-120			
Selenium	253	25	µg/L	250		101	80-120			
Silver	268	2.5	µg/L	250		107	80-120			
Thallium	241	1.0	µg/L	250		96.3	80-120			
Vanadium	231	25	µg/L	250		92.5	80-120			
Zinc	260	50	µg/L	250		104	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185847 - SW-846 3005A										
LCS Dup (B185847-BSD1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	264	5.0	µg/L	250		106	80-120	2.24	20	
Arsenic	255	2.0	µg/L	250		102	80-120	1.54	20	
Barium	262	50	µg/L	250		105	80-120	2.25	20	
Beryllium	251	2.0	µg/L	250		100	80-120	2.57	20	
Cadmium	259	2.5	µg/L	250		104	80-120	1.88	20	
Chromium	253	5.0	µg/L	250		101	80-120	0.406	20	
Copper	256	25	µg/L	250		102	80-120	0.363	20	
Lead	250	5.0	µg/L	250		100	80-120	2.32	20	
Nickel	256	25	µg/L	250		102	80-120	0.302	20	
Selenium	251	25	µg/L	250		101	80-120	0.781	20	
Silver	275	2.5	µg/L	250		110	80-120	2.68	20	
Thallium	251	1.0	µg/L	250		100	80-120	4.04	20	
Vanadium	232	25	µg/L	250		92.7	80-120	0.207	20	
Zinc	259	50	µg/L	250		103	80-120	0.591	20	

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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 B185578 - % Solids										
Duplicate (B185578-DUP4)		**Source: 17H1675-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.7		% Wt		91.4			1.41	20	
Duplicate (B185578-DUP5)		**Source: 17H1675-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.4		% Wt		91.9			0.543	20	
Duplicate (B185578-DUP6)		**Source: 17H1675-03**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	91.6		% Wt		89.7			2.10	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-33

Lab Sample ID: 17H1675-01 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-34

Lab Sample ID: 17H1675-02

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.24	
	2	0.000	-0.030	0.030	0.24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-35

Lab Sample ID: 17H1675-03

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.20	
	2	0.000	-0.030	0.030	0.21	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-36

Lab Sample ID: 17H1675-04

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.60	
	2	0.000	-0.030	0.030	0.61	1.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-37

Lab Sample ID: 17H1675-05

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	6.2	
	2	0.000	-0.030	0.030	6.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-38

Lab Sample ID: 17H1675-06

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.31	
	2	0.000	-0.030	0.030	0.32	3.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-39

Lab Sample ID: 17H1675-07

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-17-0

Lab Sample ID: 17H1675-08

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.094	
	2	0.000	-0.030	0.030	0.096	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-18-0

Lab Sample ID: 17H1675-09

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.86	
	2	0.000	-0.030	0.030	0.85	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SO-3-0

Lab Sample ID: 17H1675-12 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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	0.31	
	2	0.000	-0.030	0.030	0.31	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC9-SO-45-0

Lab Sample ID: 17H1675-13

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.26	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-25

Lab Sample ID: 17H1675-14

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	2.4	
	2	0.000	-0.030	0.030	2.4	0.0

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC10-SE-15

Lab Sample ID: 17H1675-15

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	440	
	2	0.000	-0.030	0.030	430	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185770-BS1

Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.54	9.7
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.48	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185770-BSD1 Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.55	5.6
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.48	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185858-BS1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185858-BSD1 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B185858-MS1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.41	
	2	0.000	-0.030	0.030	0.39	5.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B185858-MSD1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.37	2.7

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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-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
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.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,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

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
o-Xylene	CT,NH,NY,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	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	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,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	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	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	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
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
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,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
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
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

17H1675

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

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

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

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

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

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)
1	WS-AOC13-SO-33	8/31/17	1000		X	S	U	X
2	WS-AOC13-SO-34		1010					X
3	WS-AOC13-SO-35		1020					X
4	WS-AOC13-SO-36		1030					X
5	WS-AOC13-SO-37		1040					X
6	WS-AOC13-SO-38		1050					X
7	WS-AOC13-SO-39		1100					X
8	WS-AOC7-SO-17-0		1110					X
9	WS-AOC7-SO-18-0		1115					X
10	WS-AOC7-SO-19-0		1120					X

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature] 8/31/17	
Received by: (signature) [signature]	Date/Time: 8/31/17 1525
Relinquished by: (signature) [signature]	Date/Time: 9/1/17 950
Received by: (signature) [signature] 9/1/17	Date/Time: 3.6 9:50 4.3
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 #
WG 9/1/17
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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17H1675

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

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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)	ETPH	SVOCs	RSR 15 metals	VOCs								# of Containers	[2] Preservation Code	[3] Container Code
																				1	I	A
11	WS-AOC7-SO-20-0	8/31/17	1130		X	S	U	X														
12	WS-AOC8-SO-3-0	↓	1140		↓	↓	↓	X														
13	WS-AOC9-SO-45-0	↓	1200		↓	↓	↓	X														
14	WS-AOC8-SE-25	↓	1230		↓	↓	↓	X	X	X	X	X										
15	WS-AOC10-SE-15	↓	1300		↓	↓	↓	X														
16	TRIP BLANK	↓	—		↓	↓	↓					X										
17	Equipment Blank-58	↓	0800		↓	W	↓	X	X	X	X	X										

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
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ST = Sterile
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O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
8/31/17	
Received by: (signature)	Date/Time:
	8/31/17
Relinquished by: (signature)	Date/Time:
	9/1/17 950
Received by: (signature) S.6/4.3 9:50	Date/Time: 9/1/17
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 # _____

WG 9/1/17
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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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 WCG Date 9/1/17 Time 9:50

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 - 3.6°C/4.3°C
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-	3	1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-	2	250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	14
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: WG 9/1/17	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912039.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
17I0112-22
17I0112-23
17I0137-01
17H1672-11

D:\HPCHEM\1\DATA\A091217.SEC\A0912075.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/13/17
Data File Name	A0912075.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	644321	668772	-4
c - 10	1.63	652986	668772	-2
c - 12	2.35	670312	668772	0
c - 14	3.01	682330	668772	2
c - 16	3.61	695447	668772	4
c - 18	4.23	684583	668772	2
o-Terphenyl	4.51	758044	668772	
c - 20	4.83	689892	668772	3
c - 22	5.34	696936	668772	4
c - 24	5.77	646118	668772	-3
c - 26	6.16	678125	668772	1
c - 28	6.52	667022	668772	0
c - 30	6.85	664475	668772	-1
c - 32	7.16	650625	668772	-3
c - 34	7.45	653920	668772	-2
c - 36	7.77	654488	668772	-2

* One compound allowed %D <= 50%

Samples
17H1675-14
17I0196-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17H1675

Laboratory Sample ID(s):

17H1675-01 thru 17H1675-17

Sample Date(s):

08/31/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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

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

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

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

Printed Name: **Lisa A. Worthington** **Date:** **09/14/17**

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

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

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

October 2, 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: 17I0641

Enclosed are results of analyses for samples received by the laboratory on September 14, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 10/2/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0641

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-07-SO-13-1R	17I0641-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-14-2R	17I0641-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-14-3R	17I0641-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-15-1R	17I0641-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-8-SO-2-1R	17I0641-05	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-8-SO-4-1R	17I0641-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-8-SO-4-2R	17I0641-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-8-SO-4-3R	17I0641-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-4-1R	17I0641-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-7-2R	17I0641-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-9-1R	17I0641-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-10-1R	17I0641-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-16-2R	17I0641-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-21-1R	17I0641-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-23-4R	17I0641-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-27-1R	17I0641-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-31-1R	17I0641-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-32-3R	17I0641-18	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-9-SO-35-3R	17I0641-19	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-9-SO-37-3R	17I0641-20	Soil		SM 2540G	
				SW-846 8270D	

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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.

con-test® ANALYTICAL LABORATORY

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

SW-846 8082A

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

17I0641-08RE1[WS-AOC-8-SO-4-3R]

MS-19

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

Analyte & Samples(s) Qualified:

Aroclor-1260

B186779-MS1, B186779-MSD1, B186874-MS1

Aroclor-1260 [2C]

B186779-MS1, B186779-MSD1, B186874-MS1

S-01

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

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0641-01[WS-AOC-07-SO-13-1R], 17I0641-03[WS-AOC-07-SO-14-3R], 17I0641-04[WS-AOC-07-SO-15-1R], 17I0641-06[WS-AOC-8-SO-4-1R], 17I0641-07[WS-AOC-8-SO-4-2R], 17I0641-09[WS-AOC-9-SO-4-1R], 17I0641-11[WS-AOC-9-SO-9-1R], 17I0641-13[WS-AOC-9-SO-16-2R], 17I0641-14[WS-AOC-9-SO-21-1R], 17I0641-15[WS-AOC-9-SO-23-4R], 17I0641-16[WS-AOC-9-SO-27-1R], 17I0641-17[WS-AOC-9-SO-31-1R]

Decachlorobiphenyl [2C]

17I0641-01[WS-AOC-07-SO-13-1R], 17I0641-03[WS-AOC-07-SO-14-3R], 17I0641-04[WS-AOC-07-SO-15-1R], 17I0641-06[WS-AOC-8-SO-4-1R], 17I0641-07[WS-AOC-8-SO-4-2R], 17I0641-09[WS-AOC-9-SO-4-1R], 17I0641-11[WS-AOC-9-SO-9-1R], 17I0641-13[WS-AOC-9-SO-16-2R], 17I0641-14[WS-AOC-9-SO-21-1R], 17I0641-15[WS-AOC-9-SO-23-4R], 17I0641-16[WS-AOC-9-SO-27-1R], 17I0641-17[WS-AOC-9-SO-31-1R]

Tetrachloro-m-xylene

17I0641-01[WS-AOC-07-SO-13-1R], 17I0641-03[WS-AOC-07-SO-14-3R], 17I0641-04[WS-AOC-07-SO-15-1R], 17I0641-06[WS-AOC-8-SO-4-1R], 17I0641-07[WS-AOC-8-SO-4-2R], 17I0641-09[WS-AOC-9-SO-4-1R], 17I0641-11[WS-AOC-9-SO-9-1R], 17I0641-13[WS-AOC-9-SO-16-2R], 17I0641-14[WS-AOC-9-SO-21-1R], 17I0641-15[WS-AOC-9-SO-23-4R], 17I0641-16[WS-AOC-9-SO-27-1R], 17I0641-17[WS-AOC-9-SO-31-1R]

Tetrachloro-m-xylene [2C]

17I0641-01[WS-AOC-07-SO-13-1R], 17I0641-03[WS-AOC-07-SO-14-3R], 17I0641-04[WS-AOC-07-SO-15-1R], 17I0641-06[WS-AOC-8-SO-4-1R], 17I0641-07[WS-AOC-8-SO-4-2R], 17I0641-09[WS-AOC-9-SO-4-1R], 17I0641-11[WS-AOC-9-SO-9-1R], 17I0641-13[WS-AOC-9-SO-16-2R], 17I0641-14[WS-AOC-9-SO-21-1R], 17I0641-15[WS-AOC-9-SO-23-4R], 17I0641-16[WS-AOC-9-SO-27-1R], 17I0641-17[WS-AOC-9-SO-31-1R]

S-10

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0641-08[WS-AOC-8-SO-4-3R]

Decachlorobiphenyl [2C]

17I0641-08[WS-AOC-8-SO-4-3R]

Tetrachloro-m-xylene

17I0641-08[WS-AOC-8-SO-4-3R]

Tetrachloro-m-xylene [2C]

17I0641-08[WS-AOC-8-SO-4-3R]

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Phenanthrene (SIM)

17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R], 17I0641-18RE1[WS-AOC-9-SO-32-3R], 17I0641-19[WS-AOC-9-SO-35-3R], 17I0641-20[WS-AOC-9-SO-37-3R], B186799-BLK1, B186799-BS1, B186799-BSD1, B186799-MS1

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B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Phenanthrene (SIM)
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R], 17I0641-18RE1[WS-AOC-9-SO-32-3R], 17I0641-19[WS-AOC-9-SO-35-3R], 17I0641-20[WS-AOC-9-SO-37-3R]

E

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

Analyte & Samples(s) Qualified:

Acenaphthene
17I0641-05[WS-AOC-8-SO-2-1R]

Anthracene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-20[WS-AOC-9-SO-37-3R]

Benzo(a)anthracene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-20[WS-AOC-9-SO-37-3R]

Benzo(a)pyrene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-20[WS-AOC-9-SO-37-3R]

Benzo(b)fluoranthene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-20[WS-AOC-9-SO-37-3R]

Benzo(g,h,i)perylene
17I0641-05[WS-AOC-8-SO-2-1R]

Benzo(k)fluoranthene
17I0641-05[WS-AOC-8-SO-2-1R]

Chrysene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-20[WS-AOC-9-SO-37-3R]

Dibenz(a,h)anthracene
17I0641-05[WS-AOC-8-SO-2-1R]

Fluoranthene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R], 17I0641-19[WS-AOC-9-SO-35-3R], 17I0641-20[WS-AOC-9-SO-37-3R]

Fluoranthene (SIM)
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R]

Fluorene
17I0641-05[WS-AOC-8-SO-2-1R]

Indeno(1,2,3-cd)pyrene
17I0641-05[WS-AOC-8-SO-2-1R]

Naphthalene
17I0641-20[WS-AOC-9-SO-37-3R]

Phenanthrene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R], 17I0641-20[WS-AOC-9-SO-37-3R]

Phenanthrene (SIM)
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R]

Pyrene
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-05RE1[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R], 17I0641-19[WS-AOC-9-SO-35-3R], 17I0641-20[WS-AOC-9-SO-37-3R]

Pyrene (SIM)
17I0641-05[WS-AOC-8-SO-2-1R], 17I0641-18[WS-AOC-9-SO-32-3R]

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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:

Acenaphthene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Anthracene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Benzo(a)anthracene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Benzo(a)pyrene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Benzo(b)fluoranthene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Benzo(k)fluoranthene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Chrysene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Fluoranthene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Fluorene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Naphthalene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Phenanthrene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-MSD1

Pyrene
17I0641-20[WS-AOC-9-SO-37-3R], B186760-MS1, B186760-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:

2-Methylnaphthalene
B186760-MSD1

Acenaphthylene
B186760-MSD1

Benzo(g,h,i)perylene
B186760-MS1

Dibenz(a,h)anthracene
B186760-MSD1

Indeno(1,2,3-cd)pyrene
B186760-MS1

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-13-1R Sampled: 9/14/2017 08:25

Sample ID: 17I0641-01

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	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1221 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1232 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1242 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1248 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1254 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1260 [2]	42	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1262 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG
Aroclor-1268 [1]	ND	8.2	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 12:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 12:32
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 12:32
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 12:32
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 12:32

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-13-1R Sampled: 9/14/2017 08:25

Sample ID: 17I0641-01

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	95.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-13-1R Sampled: 9/14/2017 08:25

Sample ID: 17I0641-01

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1221 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1232 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1242 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1248 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1254 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1260 [1]	11	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1262 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB
Aroclor-1268 [1]	ND	2.0	µg/L	10		SW-846 8082A	9/22/17	9/29/17 17:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.0	30-150		9/29/17 17:49
Decachlorobiphenyl [2]	68.8	30-150		9/29/17 17:49
Tetrachloro-m-xylene [1]	92.3	30-150		9/29/17 17:49
Tetrachloro-m-xylene [2]	91.8	30-150		9/29/17 17:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-2R Sampled: 9/14/2017 08:30

Sample ID: 17I0641-02

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	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1221 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1232 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1242 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1248 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1254 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1260 [1]	1.8	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1262 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG
Aroclor-1268 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 12:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		9/29/17 12:45
Decachlorobiphenyl [2]	90.2	30-150		9/29/17 12:45
Tetrachloro-m-xylene [1]	104	30-150		9/29/17 12:45
Tetrachloro-m-xylene [2]	110	30-150		9/29/17 12:45

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-2R Sampled: 9/14/2017 08:30

Sample ID: 17I0641-02

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	94.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-2R Sampled: 9/14/2017 08:30

Sample ID: 17I0641-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1260 [1]	0.79	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.9	30-150		9/28/17 16:06
Decachlorobiphenyl [2]	71.5	30-150		9/28/17 16:06
Tetrachloro-m-xylene [1]	79.2	30-150		9/28/17 16:06
Tetrachloro-m-xylene [2]	77.3	30-150		9/28/17 16:06

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-3R Sampled: 9/14/2017 08:32

Sample ID: 17I0641-03

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	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1221 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1232 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1242 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1248 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1254 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1260 [2]	8.3	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1262 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG
Aroclor-1268 [1]	ND	0.91	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 12:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 12:57
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 12:57
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 12:57
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 12:57

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-3R Sampled: 9/14/2017 08:32

Sample ID: 17I0641-03

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	87.5		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-14-3R Sampled: 9/14/2017 08:32

Sample ID: 17I0641-03

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1260 [1]	1.7	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.8	30-150		9/28/17 16:18
Decachlorobiphenyl [2]	55.4	30-150		9/28/17 16:18
Tetrachloro-m-xylene [1]	80.6	30-150		9/28/17 16:18
Tetrachloro-m-xylene [2]	79.1	30-150		9/28/17 16:18

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-15-1R Sampled: 9/14/2017 08:20

Sample ID: 17I0641-04

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	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1221 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1232 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1242 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1248 [1]	5.7	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1254 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1260 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1262 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG
Aroclor-1268 [1]	ND	0.84	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 13:09
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 13:09
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 13:09
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 13:09

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-15-1R Sampled: 9/14/2017 08:20

Sample ID: 17I0641-04

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	90.5		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-07-SO-15-1R Sampled: 9/14/2017 08:20

Sample ID: 17I0641-04

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1260 [1]	0.73	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.9	30-150		9/28/17 16:31
Decachlorobiphenyl [2]	47.7	30-150		9/28/17 16:31
Tetrachloro-m-xylene [1]	85.0	30-150		9/28/17 16:31
Tetrachloro-m-xylene [2]	81.6	30-150		9/28/17 16:31

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-2-1R Sampled: 9/14/2017 09:12

Sample ID: 17I0641-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	14	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Acenaphthene	12	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Acenaphthylene	3.7	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Anthracene	16	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Anthracene	20	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Benzo(a)anthracene	44	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Benzo(a)anthracene	54	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Benzo(a)anthracene	58	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Benzo(a)pyrene	49	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Benzo(a)pyrene	43	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Benzo(a)pyrene	44	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Benzo(b)fluoranthene	75	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Benzo(b)fluoranthene	58	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Benzo(b)fluoranthene	60	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Benzo(g,h,i)perylene	22	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Benzo(g,h,i)perylene	30	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Benzo(k)fluoranthene	17	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Benzo(k)fluoranthene	24	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Chrysene	39	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Chrysene	54	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Chrysene	56	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Dibenz(a,h)anthracene	11	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Dibenz(a,h)anthracene	8.5	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Fluoranthene	52	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Fluoranthene	150	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Fluoranthene	130	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Fluorene	10	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Fluorene	8.7	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Indeno(1,2,3-cd)pyrene	27	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Indeno(1,2,3-cd)pyrene	33	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
2-Methylnaphthalene	0.82	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 23:17	BGL
2-Methylnaphthalene	ND	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Naphthalene	2.0	0.18	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Naphthalene	2.2	1.8	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Phenanthrene	36	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Phenanthrene	88	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Phenanthrene	78	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL
Pyrene	46	0.18	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 23:17	BGL
Pyrene	110	1.8	mg/Kg dry	10	E	SW-846 8270D	9/21/17	9/25/17 12:45	BGL
Pyrene	100	18	mg/Kg dry	100		SW-846 8270D	9/21/17	9/25/17 13:12	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.4	30-130		9/22/17 23:17
Nitrobenzene-d5	66.6	30-130		9/25/17 12:45

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-2-1R Sampled: 9/14/2017 09:12

Sample ID: 17I0641-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
Nitrobenzene-d5		84.0	30-130					9/25/17 13:12	
2-Fluorobiphenyl		71.5	30-130					9/22/17 23:17	
2-Fluorobiphenyl		71.7	30-130					9/25/17 12:45	
2-Fluorobiphenyl		80.0	30-130					9/25/17 13:12	
p-Terphenyl-d14		71.9	30-130					9/22/17 23:17	
p-Terphenyl-d14		80.8	30-130					9/25/17 12:45	
p-Terphenyl-d14		98.0	30-130					9/25/17 13:12	

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-2-1R Sampled: 9/14/2017 09:12

Sample ID: 17I0641-05

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	93.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-2-1R Sampled: 9/14/2017 09:12

Sample ID: 17I0641-05

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)	7.5	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Acenaphthene (SIM)	8.3	3.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Acenaphthylene (SIM)	0.60	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Acenaphthylene (SIM)	ND	3.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Anthracene (SIM)	2.8	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Anthracene (SIM)	3.1	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Benzo(a)anthracene (SIM)	6.3	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Benzo(a)anthracene (SIM)	6.3	0.50	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Benzo(a)pyrene (SIM)	5.0	0.10	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Benzo(a)pyrene (SIM)	5.2	1.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Benzo(b)fluoranthene (SIM)	7.1	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Benzo(b)fluoranthene (SIM)	7.7	0.50	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Benzo(g,h,i)perylene (SIM)	3.1	0.50	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Benzo(g,h,i)perylene (SIM)	ND	5.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Benzo(k)fluoranthene (SIM)	2.4	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Benzo(k)fluoranthene (SIM)	2.7	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Chrysene (SIM)	6.6	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Chrysene (SIM)	7.2	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Dibenz(a,h)anthracene (SIM)	0.87	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Dibenz(a,h)anthracene (SIM)	ND	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Fluoranthene (SIM)	16	0.50	µg/L	1	E	SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Fluoranthene (SIM)	18	5.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Fluorene (SIM)	3.4	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Fluorene (SIM)	ND	10	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Indeno(1,2,3-cd)pyrene (SIM)	3.2	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Indeno(1,2,3-cd)pyrene (SIM)	3.2	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
2-Methylnaphthalene (SIM)	ND	10	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Naphthalene (SIM)	3.4	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Naphthalene (SIM)	ND	10	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Phenanthrene (SIM)	15	0.050	µg/L	1	B-07, E, B	SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Phenanthrene (SIM)	18	0.50	µg/L	10	B-07, B	SW-846 8270D	9/21/17	9/25/17 22:26	CJM
Pyrene (SIM)	13	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/24/17 22:27	CJM
Pyrene (SIM)	14	10	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:26	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	82.3	30-130		9/24/17 22:27
Nitrobenzene-d5	92.0	30-130		9/25/17 22:26
2-Fluorobiphenyl	82.7	30-130		9/24/17 22:27
2-Fluorobiphenyl	93.7	30-130		9/25/17 22:26
p-Terphenyl-d14	67.6	30-130		9/24/17 22:27
p-Terphenyl-d14	73.4	30-130		9/25/17 22:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-1R Sampled: 9/14/2017 09:13

Sample ID: 17I0641-06

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	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1221 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1232 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1242 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1248 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1254 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1260 [2]	2.9	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1262 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG
Aroclor-1268 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 13:22
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 13:22
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 13:22
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 13:22

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-1R Sampled: 9/14/2017 09:13

Sample ID: 17I0641-06

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	93.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-1R Sampled: 9/14/2017 09:13

Sample ID: 17I0641-06

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1260 [1]	1.4	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 16:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.0	30-150		9/28/17 16:50
Decachlorobiphenyl [2]	65.2	30-150		9/28/17 16:50
Tetrachloro-m-xylene [1]	83.1	30-150		9/28/17 16:50
Tetrachloro-m-xylene [2]	80.3	30-150		9/28/17 16:50

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-2R Sampled: 9/14/2017 09:14

Sample ID: 17I0641-07

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	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1221 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1232 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1242 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1248 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1254 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1260 [2]	4.1	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1262 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG
Aroclor-1268 [1]	ND	0.85	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 13:34
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 13:34
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 13:34
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 13:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-2R Sampled: 9/14/2017 09:14

Sample ID: 17I0641-07

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	93.1		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-2R Sampled: 9/14/2017 09:14

Sample ID: 17I0641-07

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1260 [1]	1.4	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.7	30-150		9/28/17 17:03
Decachlorobiphenyl [2]	53.9	30-150		9/28/17 17:03
Tetrachloro-m-xylene [1]	80.0	30-150		9/28/17 17:03
Tetrachloro-m-xylene [2]	77.3	30-150		9/28/17 17:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-3R Sampled: 9/14/2017 09:15

Sample ID: 17I0641-08

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	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1016 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1221 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1221 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1232 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1232 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1242 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1242 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1248 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1248 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1254 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1254 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1260 [1]	5.3	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1260 [2]	5.7	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1262 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG
Aroclor-1262 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1268 [1]	ND	0.82	mg/Kg dry	40		SW-846 8082A	9/29/17	10/2/17 13:43	PJG
Aroclor-1268 [1]	ND	0.86	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:47	PJG

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]		*	30-150	S-10	9/29/17 13:47
Decachlorobiphenyl [1]	148		30-150		10/2/17 13:43
Decachlorobiphenyl [2]		*	30-150	S-10	9/29/17 13:47
Decachlorobiphenyl [2]	**151**	*	30-150		10/2/17 13:43
Tetrachloro-m-xylene [1]		*	30-150	S-10	9/29/17 13:47
Tetrachloro-m-xylene [1]	126		30-150		10/2/17 13:43
Tetrachloro-m-xylene [2]		*	30-150	S-10	9/29/17 13:47
Tetrachloro-m-xylene [2]	138		30-150		10/2/17 13:43

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-3R Sampled: 9/14/2017 09:15

Sample ID: 17I0641-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-8-SO-4-3R Sampled: 9/14/2017 09:15

Sample ID: 17I0641-08

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1260 [1]	2.1	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.4	30-150		9/28/17 17:16
Decachlorobiphenyl [2]	54.3	30-150		9/28/17 17:16
Tetrachloro-m-xylene [1]	82.0	30-150		9/28/17 17:16
Tetrachloro-m-xylene [2]	78.2	30-150		9/28/17 17:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-4-1R Sampled: 9/14/2017 10:10

Sample ID: 17I0641-09

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	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1221 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1232 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1242 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1248 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1254 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1260 [1]	5.8	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1262 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG
Aroclor-1268 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 13:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 13:59
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 13:59
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 13:59
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 13:59

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-4-1R Sampled: 9/14/2017 10:10

Sample ID: 17I0641-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-4-1R Sampled: 9/14/2017 10:10

Sample ID: 17I0641-09

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		9/28/17 18:00
Decachlorobiphenyl [2]	84.3	30-150		9/28/17 18:00
Tetrachloro-m-xylene [1]	85.4	30-150		9/28/17 18:00
Tetrachloro-m-xylene [2]	79.6	30-150		9/28/17 18:00

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-7-2R Sampled: 9/14/2017 10:12

Sample ID: 17I0641-10

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	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1221 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1232 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1242 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1248 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1254 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1260 [2]	1.6	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1262 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG
Aroclor-1268 [1]	ND	0.34	mg/Kg dry	16		SW-846 8082A	9/21/17	9/29/17 14:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		9/29/17 14:12
Decachlorobiphenyl [2]	95.6	30-150		9/29/17 14:12
Tetrachloro-m-xylene [1]	103	30-150		9/29/17 14:12
Tetrachloro-m-xylene [2]	106	30-150		9/29/17 14:12

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-7-2R Sampled: 9/14/2017 10:12

Sample ID: 17I0641-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-7-2R Sampled: 9/14/2017 10:12

Sample ID: 17I0641-10

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.1	30-150		9/28/17 18:13
Decachlorobiphenyl [2]	84.1	30-150		9/28/17 18:13
Tetrachloro-m-xylene [1]	86.7	30-150		9/28/17 18:13
Tetrachloro-m-xylene [2]	80.5	30-150		9/28/17 18:13

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-9-1R Sampled: 9/14/2017 10:24

Sample ID: 17I0641-11

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	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1221 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1232 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1242 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1248 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1254 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1260 [2]	11	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1262 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG
Aroclor-1268 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 14:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 14:24
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 14:24
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 14:24
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 14:24

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-9-1R Sampled: 9/14/2017 10:24

Sample ID: 17I0641-11

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	94.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-9-1R Sampled: 9/14/2017 10:24

Sample ID: 17I0641-11

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1260 [1]	0.68	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		9/28/17 18:26
Decachlorobiphenyl [2]	75.9	30-150		9/28/17 18:26
Tetrachloro-m-xylene [1]	84.7	30-150		9/28/17 18:26
Tetrachloro-m-xylene [2]	80.2	30-150		9/28/17 18:26

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-10-1R Sampled: 9/14/2017 10:17

Sample ID: 17I0641-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1260 [1]	0.88	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/21/17	9/29/17 16:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		9/29/17 16:30
Decachlorobiphenyl [2]	79.7	30-150		9/29/17 16:30
Tetrachloro-m-xylene [1]	72.3	30-150		9/29/17 16:30
Tetrachloro-m-xylene [2]	73.0	30-150		9/29/17 16:30

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-10-1R Sampled: 9/14/2017 10:17

Sample ID: 17I0641-12

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	92.4		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-10-1R Sampled: 9/14/2017 10:17

Sample ID: 17I0641-12

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1260 [1]	0.23	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.7	30-150		9/28/17 18:40
Decachlorobiphenyl [2]	60.0	30-150		9/28/17 18:40
Tetrachloro-m-xylene [1]	86.6	30-150		9/28/17 18:40
Tetrachloro-m-xylene [2]	81.7	30-150		9/28/17 18:40

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-16-2R Sampled: 9/14/2017 10:27

Sample ID: 17I0641-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1221 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1232 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1242 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1248 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1254 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1260 [2]	34	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1262 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG
Aroclor-1268 [1]	ND	8.7	mg/Kg dry	400		SW-846 8082A	9/21/17	9/29/17 15:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 15:26
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 15:26
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 15:26
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 15:26

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-16-2R Sampled: 9/14/2017 10:27

Sample ID: 17I0641-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-16-2R Sampled: 9/14/2017 10:27

Sample ID: 17I0641-13

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1260 [1]	2.0	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 18:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		9/28/17 18:53
Decachlorobiphenyl [2]	66.2	30-150		9/28/17 18:53
Tetrachloro-m-xylene [1]	89.9	30-150		9/28/17 18:53
Tetrachloro-m-xylene [2]	84.0	30-150		9/28/17 18:53

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-21-1R Sampled: 9/14/2017 10:32

Sample ID: 17I0641-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1221 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1232 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1242 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1248 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1254 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1260 [2]	8.3	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1262 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG
Aroclor-1268 [1]	ND	1.6	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 15:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 15:38
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 15:38
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 15:38
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 15:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-21-1R Sampled: 9/14/2017 10:32

Sample ID: 17I0641-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-21-1R Sampled: 9/14/2017 10:32

Sample ID: 17I0641-14

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1260 [1]	0.73	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		9/28/17 19:06
Decachlorobiphenyl [2]	61.7	30-150		9/28/17 19:06
Tetrachloro-m-xylene [1]	94.9	30-150		9/28/17 19:06
Tetrachloro-m-xylene [2]	88.8	30-150		9/28/17 19:06

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-23-4R Sampled: 9/14/2017 09:52

Sample ID: 17I0641-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1221 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1232 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1242 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1248 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1254 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1260 [2]	5.3	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1262 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG
Aroclor-1268 [1]	ND	0.83	mg/Kg dry	40		SW-846 8082A	9/21/17	9/29/17 15:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 15:51
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 15:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 15:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 15:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-23-4R Sampled: 9/14/2017 09:52

Sample ID: 17I0641-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-23-4R Sampled: 9/14/2017 09:52

Sample ID: 17I0641-15

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1260 [1]	0.82	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		9/28/17 19:20
Decachlorobiphenyl [2]	67.7	30-150		9/28/17 19:20
Tetrachloro-m-xylene [1]	91.0	30-150		9/28/17 19:20
Tetrachloro-m-xylene [2]	83.2	30-150		9/28/17 19:20

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-27-1R Sampled: 9/14/2017 10:02

Sample ID: 17I0641-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1221 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1232 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1242 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1248 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1254 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1260 [2]	14	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1262 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG
Aroclor-1268 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 16:03
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 16:03
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 16:03
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 16:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-27-1R Sampled: 9/14/2017 10:02

Sample ID: 17I0641-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-27-1R Sampled: 9/14/2017 10:02

Sample ID: 17I0641-16

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1248 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1254 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1260 [1]	4.2	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/22/17	9/29/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.7	30-150		9/29/17 18:07
Decachlorobiphenyl [2]	60.9	30-150		9/29/17 18:07
Tetrachloro-m-xylene [1]	95.5	30-150		9/29/17 18:07
Tetrachloro-m-xylene [2]	91.6	30-150		9/29/17 18:07

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-31-1R Sampled: 9/14/2017 10:54

Sample ID: 17I0641-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1221 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1232 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1242 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1248 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1254 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1260 [2]	15	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1262 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG
Aroclor-1268 [1]	ND	1.7	mg/Kg dry	80		SW-846 8082A	9/21/17	9/29/17 16:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/29/17 16:16
Decachlorobiphenyl [2]	*	30-150	S-01	9/29/17 16:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/29/17 16:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/29/17 16:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-31-1R Sampled: 9/14/2017 10:54

Sample ID: 17I0641-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-31-1R Sampled: 9/14/2017 10:54

Sample ID: 17I0641-17

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1260 [1]	0.69	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/22/17	9/28/17 19:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.5	30-150		9/28/17 19:46
Decachlorobiphenyl [2]	50.1	30-150		9/28/17 19:46
Tetrachloro-m-xylene [1]	86.7	30-150		9/28/17 19:46
Tetrachloro-m-xylene [2]	80.1	30-150		9/28/17 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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-32-3R Sampled: 9/14/2017 11:06

Sample ID: 17I0641-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.7	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Acenaphthene	1.7	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Acenaphthylene	0.37	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Acenaphthylene	ND	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Anthracene	2.0	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Anthracene	1.9	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Benzo(a)anthracene	4.5	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Benzo(a)anthracene	4.7	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Benzo(a)pyrene	4.4	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Benzo(a)pyrene	4.4	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Benzo(b)fluoranthene	4.9	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Benzo(b)fluoranthene	5.0	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Benzo(g,h,i)perylene	3.0	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Benzo(g,h,i)perylene	2.7	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Benzo(k)fluoranthene	1.9	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Benzo(k)fluoranthene	1.9	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Chrysene	3.9	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Chrysene	4.1	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Dibenz(a,h)anthracene	0.66	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Dibenz(a,h)anthracene	ND	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Fluoranthene	13	0.25	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Fluoranthene	10	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Fluorene	1.4	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Fluorene	1.5	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Indeno(1,2,3-cd)pyrene	2.9	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Indeno(1,2,3-cd)pyrene	2.8	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
2-Methylnaphthalene	0.72	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
2-Methylnaphthalene	ND	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Naphthalene	2.9	0.25	mg/Kg dry	1		SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Naphthalene	3.0	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Phenanthrene	8.5	0.25	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Phenanthrene	7.5	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL
Pyrene	9.8	0.25	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/25/17 11:00	BGL
Pyrene	9.1	1.2	mg/Kg dry	5		SW-846 8270D	9/21/17	9/25/17 11:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	45.4	30-130		9/25/17 11:00
Nitrobenzene-d5	46.7	30-130		9/25/17 11:26
2-Fluorobiphenyl	66.2	30-130		9/25/17 11:00
2-Fluorobiphenyl	64.3	30-130		9/25/17 11:26
p-Terphenyl-d14	63.9	30-130		9/25/17 11:00
p-Terphenyl-d14	65.7	30-130		9/25/17 11:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-32-3R Sampled: 9/14/2017 11:06

Sample ID: 17I0641-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.3		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-32-3R Sampled: 9/14/2017 11:06

Sample ID: 17I0641-18

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)	5.3	0.29	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Acenaphthene (SIM)	5.7	2.9	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Acenaphthylene (SIM)	ND	2.9	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Anthracene (SIM)	3.7	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Anthracene (SIM)	3.7	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Benzo(a)anthracene (SIM)	3.4	0.049	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Benzo(a)anthracene (SIM)	3.5	0.49	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Benzo(a)pyrene (SIM)	2.1	0.098	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Benzo(a)pyrene (SIM)	2.2	0.98	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Benzo(b)fluoranthene (SIM)	2.4	0.049	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Benzo(b)fluoranthene (SIM)	2.7	0.49	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Benzo(g,h,i)perylene (SIM)	0.88	0.49	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Benzo(g,h,i)perylene (SIM)	ND	4.9	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Benzo(k)fluoranthene (SIM)	0.82	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Benzo(k)fluoranthene (SIM)	ND	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Chrysene (SIM)	3.4	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Chrysene (SIM)	3.7	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Dibenz(a,h)anthracene (SIM)	ND	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Fluoranthene (SIM)	14	0.49	µg/L	1	E	SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Fluoranthene (SIM)	16	4.9	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Fluorene (SIM)	2.8	0.98	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Fluorene (SIM)	ND	9.8	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.90	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	2.0	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
2-Methylnaphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
2-Methylnaphthalene (SIM)	ND	9.8	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Naphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Naphthalene (SIM)	ND	9.8	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Phenanthrene (SIM)	16	0.049	µg/L	1	B-07, E, B	SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Phenanthrene (SIM)	18	0.49	µg/L	10	B-07, B	SW-846 8270D	9/21/17	9/25/17 22:54	CJM
Pyrene (SIM)	14	0.98	µg/L	1	E	SW-846 8270D	9/21/17	9/24/17 22:55	CJM
Pyrene (SIM)	15	9.8	µg/L	10		SW-846 8270D	9/21/17	9/25/17 22:54	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.4	30-130		9/24/17 22:55
Nitrobenzene-d5	76.0	30-130		9/25/17 22:54
2-Fluorobiphenyl	69.8	30-130		9/24/17 22:55
2-Fluorobiphenyl	78.8	30-130		9/25/17 22:54
p-Terphenyl-d14	49.9	30-130		9/24/17 22:55
p-Terphenyl-d14	50.3	30-130		9/25/17 22:54

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-35-3R Sampled: 9/14/2017 11:24

Sample ID: 17I0641-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.97	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Acenaphthene	1.0	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Acenaphthylene	ND	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Anthracene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Anthracene	1.1	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Benzo(a)anthracene	1.9	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Benzo(a)anthracene	2.1	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Benzo(a)pyrene	1.7	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Benzo(a)pyrene	1.8	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Benzo(b)fluoranthene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Benzo(b)fluoranthene	2.0	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Benzo(g,h,i)perylene	0.99	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Benzo(g,h,i)perylene	1.3	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Benzo(k)fluoranthene	0.65	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Benzo(k)fluoranthene	0.75	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Chrysene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Chrysene	1.9	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Dibenz(a,h)anthracene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Dibenz(a,h)anthracene	ND	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Fluoranthene	5.9	0.21	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Fluoranthene	5.7	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Fluorene	0.72	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Fluorene	0.75	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Indeno(1,2,3-cd)pyrene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
2-Methylnaphthalene	0.38	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
2-Methylnaphthalene	0.42	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Naphthalene	1.6	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Naphthalene	1.7	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Phenanthrene	4.3	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Phenanthrene	4.3	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL
Pyrene	5.2	0.21	mg/Kg dry	1	E	SW-846 8270D	9/21/17	9/22/17 20:54	BGL
Pyrene	4.8	0.41	mg/Kg dry	2		SW-846 8270D	9/21/17	9/25/17 11:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.4	30-130		9/22/17 20:54
Nitrobenzene-d5	58.8	30-130		9/25/17 11:52
2-Fluorobiphenyl	67.6	30-130		9/22/17 20:54
2-Fluorobiphenyl	70.1	30-130		9/25/17 11:52
p-Terphenyl-d14	82.5	30-130		9/22/17 20:54
p-Terphenyl-d14	76.4	30-130		9/25/17 11:52

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-35-3R Sampled: 9/14/2017 11:24

Sample ID: 17I0641-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-35-3R Sampled: 9/14/2017 11:24

Sample ID: 17I0641-19

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)	8.1	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Anthracene (SIM)	1.1	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Benzo(a)anthracene (SIM)	0.14	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Benzo(b)fluoranthene (SIM)	0.098	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Fluoranthene (SIM)	1.7	0.50	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Fluorene (SIM)	3.0	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Naphthalene (SIM)	4.8	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Phenanthrene (SIM)	6.5	0.050	µg/L	1	B-07, B	SW-846 8270D	9/21/17	9/24/17 23:23	CJM
Pyrene (SIM)	1.3	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:23	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	79.9	30-130		9/24/17 23:23
2-Fluorobiphenyl	81.6	30-130		9/24/17 23:23
p-Terphenyl-d14	69.1	30-130		9/24/17 23:23

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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: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-37-3R Sampled: 9/14/2017 11:31

Sample ID: 17I0641-20

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	4.6	0.21	mg/Kg dry	1	MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Acenaphthene	4.6	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Acenaphthylene	0.61	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Acenaphthylene	ND	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Anthracene	6.7	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Anthracene	6.1	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Benzo(a)anthracene	8.3	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Benzo(a)anthracene	9.4	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Benzo(a)pyrene	8.0	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Benzo(a)pyrene	8.3	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Benzo(b)fluoranthene	8.1	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Benzo(b)fluoranthene	8.9	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Benzo(g,h,i)perylene	4.4	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Benzo(g,h,i)perylene	5.8	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Benzo(k)fluoranthene	3.0	0.21	mg/Kg dry	1	MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Benzo(k)fluoranthene	3.4	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Chrysene	7.7	0.21	mg/Kg dry	1	MS-09, E	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Chrysene	8.6	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Dibenz(a,h)anthracene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Dibenz(a,h)anthracene	ND	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Fluoranthene	25	0.21	mg/Kg dry	1	MS-09, E	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Fluoranthene	25	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Fluorene	4.1	0.21	mg/Kg dry	1	MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Fluorene	4.1	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Indeno(1,2,3-cd)pyrene	4.5	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Indeno(1,2,3-cd)pyrene	5.9	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
2-Methylnaphthalene	2.3	0.21	mg/Kg dry	1		SW-846 8270D	9/21/17	9/22/17 21:18	BGL
2-Methylnaphthalene	2.6	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Naphthalene	7.0	0.21	mg/Kg dry	1	MS-09, E	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Naphthalene	7.0	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Phenanthrene	22	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Phenanthrene	23	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL
Pyrene	25	0.21	mg/Kg dry	1	E, MS-09	SW-846 8270D	9/21/17	9/22/17 21:18	BGL
Pyrene	23	2.1	mg/Kg dry	10		SW-846 8270D	9/21/17	9/25/17 12:19	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.4	30-130		9/22/17 21:18
Nitrobenzene-d5	71.4	30-130		9/25/17 12:19
2-Fluorobiphenyl	80.8	30-130		9/22/17 21:18
2-Fluorobiphenyl	85.4	30-130		9/25/17 12:19
p-Terphenyl-d14	105	30-130		9/22/17 21:18
p-Terphenyl-d14	98.3	30-130		9/25/17 12:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-37-3R Sampled: 9/14/2017 11:31

Sample ID: 17I0641-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	9/19/17	9/19/17 23:04	MJR

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0641

Date Received: 9/14/2017

Field Sample #: WS-AOC-9-SO-37-3R Sampled: 9/14/2017 11:31

Sample ID: 17I0641-20

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)	8.4	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Anthracene (SIM)	0.85	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Benzo(a)anthracene (SIM)	0.065	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Fluoranthene (SIM)	1.2	0.50	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Fluorene (SIM)	2.3	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
2-Methylnaphthalene (SIM)	1.9	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Naphthalene (SIM)	8.4	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Phenanthrene (SIM)	4.5	0.050	µg/L	1	B-07, B	SW-846 8270D	9/21/17	9/24/17 23:52	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/24/17 23:52	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.2	30-130		9/24/17 23:52
2-Fluorobiphenyl	82.3	30-130		9/24/17 23:52
p-Terphenyl-d14	71.1	30-130		9/24/17 23:52

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0641-01 [WS-AOC-07-SO-13-1R]	B186579	09/19/17
17I0641-02 [WS-AOC-07-SO-14-2R]	B186579	09/19/17
17I0641-03 [WS-AOC-07-SO-14-3R]	B186579	09/19/17
17I0641-04 [WS-AOC-07-SO-15-1R]	B186579	09/19/17
17I0641-05 [WS-AOC-8-SO-2-1R]	B186579	09/19/17
17I0641-06 [WS-AOC-8-SO-4-1R]	B186579	09/19/17
17I0641-07 [WS-AOC-8-SO-4-2R]	B186579	09/19/17
17I0641-08 [WS-AOC-8-SO-4-3R]	B186579	09/19/17
17I0641-09 [WS-AOC-9-SO-4-1R]	B186579	09/19/17
17I0641-10 [WS-AOC-9-SO-7-2R]	B186579	09/19/17
17I0641-11 [WS-AOC-9-SO-9-1R]	B186579	09/19/17
17I0641-12 [WS-AOC-9-SO-10-1R]	B186579	09/19/17
17I0641-13 [WS-AOC-9-SO-16-2R]	B186579	09/19/17
17I0641-14 [WS-AOC-9-SO-21-1R]	B186579	09/19/17
17I0641-15 [WS-AOC-9-SO-23-4R]	B186579	09/19/17
17I0641-16 [WS-AOC-9-SO-27-1R]	B186579	09/19/17
17I0641-17 [WS-AOC-9-SO-31-1R]	B186579	09/19/17
17I0641-18 [WS-AOC-9-SO-32-3R]	B186579	09/19/17
17I0641-19 [WS-AOC-9-SO-35-3R]	B186579	09/19/17
17I0641-20 [WS-AOC-9-SO-37-3R]	B186579	09/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0641-01 [WS-AOC-07-SO-13-1R]	B186779	10.2	10.0	09/21/17
17I0641-02 [WS-AOC-07-SO-14-2R]	B186779	10.0	10.0	09/21/17
17I0641-03 [WS-AOC-07-SO-14-3R]	B186779	10.0	10.0	09/21/17
17I0641-04 [WS-AOC-07-SO-15-1R]	B186779	10.5	10.0	09/21/17
17I0641-06 [WS-AOC-8-SO-4-1R]	B186779	10.4	10.0	09/21/17
17I0641-07 [WS-AOC-8-SO-4-2R]	B186779	10.1	10.0	09/21/17
17I0641-08 [WS-AOC-8-SO-4-3R]	B186779	10.1	10.0	09/21/17
17I0641-09 [WS-AOC-9-SO-4-1R]	B186779	10.3	10.0	09/21/17
17I0641-10 [WS-AOC-9-SO-7-2R]	B186779	10.0	10.0	09/21/17
17I0641-11 [WS-AOC-9-SO-9-1R]	B186779	10.5	10.0	09/21/17
17I0641-12 [WS-AOC-9-SO-10-1R]	B186779	10.5	10.0	09/21/17
17I0641-13 [WS-AOC-9-SO-16-2R]	B186779	10.0	10.0	09/21/17
17I0641-14 [WS-AOC-9-SO-21-1R]	B186779	10.5	10.0	09/21/17
17I0641-15 [WS-AOC-9-SO-23-4R]	B186779	10.3	10.0	09/21/17
17I0641-16 [WS-AOC-9-SO-27-1R]	B186779	10.0	10.0	09/21/17
17I0641-17 [WS-AOC-9-SO-31-1R]	B186779	10.1	10.0	09/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0641-08RE1 [WS-AOC-8-SO-4-3R]	B187427	10.6	10.0	09/29/17

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/20/2017 per SW-846 1312 in Batch B186630**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0641-01 [WS-AOC-07-SO-13-1R]	B186874	500	5.00	09/22/17
17I0641-02 [WS-AOC-07-SO-14-2R]	B186874	500	5.00	09/22/17

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/20/2017 per SW-846 1312 in Batch B186630**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0641-03 [WS-AOC-07-SO-14-3R]	B186874	500	5.00	09/22/17
17I0641-04 [WS-AOC-07-SO-15-1R]	B186874	500	5.00	09/22/17
17I0641-06 [WS-AOC-8-SO-4-1R]	B186874	500	5.00	09/22/17
17I0641-07 [WS-AOC-8-SO-4-2R]	B186874	500	5.00	09/22/17
17I0641-08 [WS-AOC-8-SO-4-3R]	B186874	500	5.00	09/22/17
17I0641-09 [WS-AOC-9-SO-4-1R]	B186874	500	5.00	09/22/17
17I0641-10 [WS-AOC-9-SO-7-2R]	B186874	500	5.00	09/22/17
17I0641-11 [WS-AOC-9-SO-9-1R]	B186874	500	5.00	09/22/17
17I0641-12 [WS-AOC-9-SO-10-1R]	B186874	500	5.00	09/22/17
17I0641-13 [WS-AOC-9-SO-16-2R]	B186874	500	5.00	09/22/17
17I0641-14 [WS-AOC-9-SO-21-1R]	B186874	500	5.00	09/22/17
17I0641-15 [WS-AOC-9-SO-23-4R]	B186874	500	5.00	09/22/17
17I0641-16 [WS-AOC-9-SO-27-1R]	B186874	500	5.00	09/22/17
17I0641-17 [WS-AOC-9-SO-31-1R]	B186874	500	5.00	09/22/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0641-05 [WS-AOC-8-SO-2-1R]	B186760	30.1	1.00	09/21/17
17I0641-05RE1 [WS-AOC-8-SO-2-1R]	B186760	30.1	1.00	09/21/17
17I0641-05RE2 [WS-AOC-8-SO-2-1R]	B186760	30.1	1.00	09/21/17
17I0641-18 [WS-AOC-9-SO-32-3R]	B186760	30.0	1.00	09/21/17
17I0641-18RE1 [WS-AOC-9-SO-32-3R]	B186760	30.0	1.00	09/21/17
17I0641-19 [WS-AOC-9-SO-35-3R]	B186760	30.0	1.00	09/21/17
17I0641-19RE1 [WS-AOC-9-SO-35-3R]	B186760	30.0	1.00	09/21/17
17I0641-20 [WS-AOC-9-SO-37-3R]	B186760	30.1	1.00	09/21/17
17I0641-20RE1 [WS-AOC-9-SO-37-3R]	B186760	30.1	1.00	09/21/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 9/20/2017 per SW-846 1312 in Batch B186630**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0641-05 [WS-AOC-8-SO-2-1R]	B186799	1000	1.00	09/21/17
17I0641-05RE1 [WS-AOC-8-SO-2-1R]	B186799	1000	1.00	09/21/17
17I0641-18 [WS-AOC-9-SO-32-3R]	B186799	920	0.900	09/21/17
17I0641-18RE1 [WS-AOC-9-SO-32-3R]	B186799	920	0.900	09/21/17
17I0641-19 [WS-AOC-9-SO-35-3R]	B186799	1000	1.00	09/21/17
17I0641-20 [WS-AOC-9-SO-37-3R]	B186799	1000	1.00	09/21/17

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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 B186760 - SW-846 3546										
Blank (B186760-BLK1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*1.91*		mg/Kg wet	3.33		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.13*		mg/Kg wet	3.33		63.8	30-130			
Surrogate: p-Terphenyl-d14	*2.71*		mg/Kg wet	3.33		81.4	30-130			
LCS (B186760-BS1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Acenaphthylene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140			
Anthracene	0.988	0.17	mg/Kg wet	1.67		59.3	40-140			
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(a)pyrene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(b)fluoranthene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Chrysene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Indeno(1,2,3-cd)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Naphthalene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Pyrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Surrogate: Nitrobenzene-d5	*2.07*		mg/Kg wet	3.33		62.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.40*		mg/Kg wet	3.33		72.0	30-130			
Surrogate: p-Terphenyl-d14	*2.73*		mg/Kg wet	3.33		81.9	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 B186760 - SW-846 3546											
LCS Dup (B186760-BSD1)				Prepared: 09/21/17 Analyzed: 09/22/17							
Acenaphthene	0.961	0.17	mg/Kg wet	1.67		57.7		40-140	8.53	30	
Acenaphthylene	0.966	0.17	mg/Kg wet	1.67		58.0		40-140	6.89	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9		40-140	9.11	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1		40-140	7.03	30	
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140	5.89	30	
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7		40-140	9.12	30	
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.2		40-140	7.72	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.4		40-140	6.44	30	
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.8		40-140	8.50	30	
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4		40-140	9.87	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0		40-140	7.89	30	
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140	7.65	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5		40-140	5.67	30	
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.0		40-140	8.68	30	
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2		40-140	7.90	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		65.9		40-140	9.00	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	7.81	30	
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.60*		mg/Kg wet	3.33		77.9		30-130			
Surrogate: p-Terphenyl-d14	*2.95*		mg/Kg wet	3.33		88.5		30-130			
Matrix Spike (B186760-MS1)	**Source: 17I0641-20**			Prepared: 09/21/17 Analyzed: 09/22/17							
Acenaphthene	4.62	0.21	mg/Kg dry	2.05	4.62	**0.140**	*	40-140			MS-09
Acenaphthylene	1.54	0.21	mg/Kg dry	2.05	0.611	45.1		40-140			
Anthracene	6.26	0.21	mg/Kg dry	2.05	6.72	**-22.4**	*	40-140			MS-09
Benzo(a)anthracene	7.36	0.21	mg/Kg dry	2.05	8.33	**-47.6**	*	40-140			MS-09
Benzo(a)pyrene	6.66	0.21	mg/Kg dry	2.05	7.99	**-64.8**	*	40-140			MS-09
Benzo(b)fluoranthene	6.57	0.21	mg/Kg dry	2.05	8.08	**-73.6**	*	40-140			MS-09
Benzo(g,h,i)perylene	5.12	0.21	mg/Kg dry	2.05	4.40	**35.2**	*	40-140			MS-22
Benzo(k)fluoranthene	3.26	0.21	mg/Kg dry	2.05	3.00	**12.9**	*	40-140			MS-09
Chrysene	6.64	0.21	mg/Kg dry	2.05	7.71	**-52.3**	*	40-140			MS-09
Dibenz(a,h)anthracene	1.93	0.21	mg/Kg dry	2.05	1.07	41.9		40-140			
Fluoranthene	20.8	0.21	mg/Kg dry	2.05	25.3	**-217**	*	40-140			MS-09
Fluorene	4.28	0.21	mg/Kg dry	2.05	4.07	**10.1**	*	40-140			MS-09
Indeno(1,2,3-cd)pyrene	5.14	0.21	mg/Kg dry	2.05	4.49	**31.7**	*	40-140			MS-22
2-Methylnaphthalene	3.31	0.21	mg/Kg dry	2.05	2.33	48.0		40-140			
Naphthalene	7.53	0.21	mg/Kg dry	2.05	6.95	**28.1**	*	40-140			MS-09
Phenanthrene	18.8	0.21	mg/Kg dry	2.05	21.8	**-146**	*	40-140			MS-09
Pyrene	19.5	0.21	mg/Kg dry	2.05	24.8	**-257**	*	40-140			MS-09
Surrogate: Nitrobenzene-d5	*2.52*		mg/Kg dry	4.10		61.5		30-130			
Surrogate: 2-Fluorobiphenyl	*2.90*		mg/Kg dry	4.10		70.7		30-130			
Surrogate: p-Terphenyl-d14	*3.41*		mg/Kg dry	4.10		83.1		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 B186760 - SW-846 3546											
Matrix Spike Dup (B186760-MSD1)		**Source: 17I0641-20**		Prepared: 09/21/17 Analyzed: 09/22/17							
Acenaphthene	4.32	0.21	mg/Kg dry	2.05	4.62	**-14.8**	*	40-140	6.87	30	MS-09
Acenaphthylene	1.32	0.21	mg/Kg dry	2.05	0.611	**34.8**	*	40-140	14.8	30	MS-22
Anthracene	6.25	0.21	mg/Kg dry	2.05	6.72	**-22.9**	*	40-140	0.177	30	MS-09
Benzo(a)anthracene	8.19	0.21	mg/Kg dry	2.05	8.33	**-7.02**	*	40-140	10.7	30	MS-09
Benzo(a)pyrene	7.60	0.21	mg/Kg dry	2.05	7.99	**-18.8**	*	40-140	13.3	30	MS-09
Benzo(b)fluoranthene	7.39	0.21	mg/Kg dry	2.05	8.08	**-33.4**	*	40-140	11.8	30	MS-09
Benzo(g,h,i)perylene	5.59	0.21	mg/Kg dry	2.05	4.40	58.0		40-140	8.72	30	
Benzo(k)fluoranthene	3.58	0.21	mg/Kg dry	2.05	3.00	**28.5**	*	40-140	9.32	30	MS-09
Chrysene	7.41	0.21	mg/Kg dry	2.05	7.71	**-14.7**	*	40-140	11.0	30	MS-09
Dibenz(a,h)anthracene	1.85	0.21	mg/Kg dry	2.05	1.07	**38.1**	*	40-140	4.03	30	MS-22
Fluoranthene	23.1	0.21	mg/Kg dry	2.05	25.3	**-107**	*	40-140	10.2	30	MS-09
Fluorene	4.02	0.21	mg/Kg dry	2.05	4.07	**-2.60**	*	40-140	6.29	30	MS-09
Indeno(1,2,3-cd)pyrene	5.58	0.21	mg/Kg dry	2.05	4.49	53.1		40-140	8.18	30	
2-Methylnaphthalene	2.95	0.21	mg/Kg dry	2.05	2.33	**30.1**	*	40-140	11.7	30	MS-22
Naphthalene	6.59	0.21	mg/Kg dry	2.05	6.95	**-17.8**	*	40-140	13.3	30	MS-09
Phenanthrene	19.4	0.21	mg/Kg dry	2.05	21.8	**-116**	*	40-140	3.18	30	MS-09
Pyrene	21.9	0.21	mg/Kg dry	2.05	24.8	**-141**	*	40-140	11.5	30	MS-09
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg dry	4.10		55.0		30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg dry	4.10		60.2		30-130			
Surrogate: p-Terphenyl-d14	*2.93*		mg/Kg dry	4.10		71.4		30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186779 - SW-846 3540C											
Blank (B186779-BLK1)				Prepared: 09/21/17 Analyzed: 09/29/17							
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	*0.241*		mg/Kg wet	0.200		120		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		97.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg wet	0.200		103		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		73.8		30-150			
LCS (B186779-BS1)				Prepared: 09/21/17 Analyzed: 09/29/17							
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.6		40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6		40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.6		40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.8		40-140			
Surrogate: Decachlorobiphenyl	*0.238*		mg/Kg wet	0.200		119		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.0		30-150			
Matrix Spike (B186779-MS1)		**Source: 17I0641-01**		Prepared: 09/21/17 Analyzed: 09/29/17							
Aroclor-1016	0.22	0.082	mg/Kg dry	0.204	ND	106		40-140			
Aroclor-1016 [2C]	0.21	0.082	mg/Kg dry	0.204	ND	101		40-140			
Aroclor-1260	25	0.082	mg/Kg dry	0.204	38	**-6590**	*	40-140			MS-19
Aroclor-1260 [2C]	14	0.082	mg/Kg dry	0.204	42	**-13500**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.204		76.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.204		87.7		30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg dry	0.204		95.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg dry	0.204		92.8		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 B186779 - SW-846 3540C											
Matrix Spike Dup (B186779-MSD1)		**Source: 17I0641-01**		Prepared: 09/21/17 Analyzed: 09/29/17							
Aroclor-1016	0.24	0.082	mg/Kg dry	0.206	ND	116		40-140		50	
Aroclor-1016 [2C]	0.23	0.082	mg/Kg dry	0.206	ND	109		40-140		50	
Aroclor-1260	26	0.082	mg/Kg dry	0.206	38	**-6060**	*	40-140	3.70	50	MS-19
Aroclor-1260 [2C]	15	0.082	mg/Kg dry	0.206	42	**-13000**	*	40-140	5.37	50	MS-19
Surrogate: Decachlorobiphenyl	*0.161*		mg/Kg dry	0.206		78.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg dry	0.206		85.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.202*		mg/Kg dry	0.206		98.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.206		98.1		30-150			
Batch B187427 - SW-846 3540C											
Blank (B187427-BLK1)				Prepared: 09/29/17 Analyzed: 10/02/17							
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	*0.146*		mg/Kg wet	0.200		73.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.131*		mg/Kg wet	0.200		65.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.145*		mg/Kg wet	0.200		72.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.138*		mg/Kg wet	0.200		69.0		30-150			
LCS (B187427-BS1)				Prepared: 09/29/17 Analyzed: 10/02/17							
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.6		40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.7		40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.8		40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5		40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg wet	0.200		96.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.200		82.8		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 B187427 - SW-846 3540C										
LCS Dup (B187427-BSD1)				Prepared: 09/29/17 Analyzed: 10/02/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		76.8	40-140	14.3	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		73.1	40-140	13.6	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		71.9	40-140	17.7	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.0	40-140	16.5	30	
Surrogate: Decachlorobiphenyl	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.143*		mg/Kg wet	0.200		71.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg wet	0.200		75.6	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 B186579 - % Solids										
Duplicate (B186579-DUP1)		**Source: 17I0641-20**		Prepared & Analyzed: 09/19/17						
% Solids	83.6		% Wt		81.0			3.16	20	

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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 B186799 - SW-846 3510C										
Blank (B186799-BLK1)				Prepared: 09/21/17 Analyzed: 09/24/17						
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)	0.14	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*73.6*		µg/L	100		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	*77.0*		µg/L	100		77.0	30-130			
Surrogate: p-Terphenyl-d14	*75.6*		µg/L	100		75.6	30-130			
LCS (B186799-BS1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene (SIM)	37.9	7.5	µg/L	50.0		75.8	40-140			
Acenaphthylene (SIM)	37.0	7.5	µg/L	50.0		73.9	40-140			
Anthracene (SIM)	40.3	5.0	µg/L	50.0		80.6	40-140			
Benzo(a)anthracene (SIM)	40.9	1.2	µg/L	50.0		81.8	40-140			
Benzo(a)pyrene (SIM)	42.5	2.5	µg/L	50.0		85.0	40-140			
Benzo(b)fluoranthene (SIM)	43.5	1.2	µg/L	50.0		87.0	40-140			
Benzo(g,h,i)perylene (SIM)	39.4	12	µg/L	50.0		78.7	40-140			
Benzo(k)fluoranthene (SIM)	42.4	5.0	µg/L	50.0		84.8	40-140			
Chrysene (SIM)	41.1	5.0	µg/L	50.0		82.2	40-140			
Dibenz(a,h)anthracene (SIM)	40.7	5.0	µg/L	50.0		81.4	40-140			
Fluoranthene (SIM)	39.3	12	µg/L	50.0		78.6	40-140			
Fluorene (SIM)	38.7	25	µg/L	50.0		77.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.9	5.0	µg/L	50.0		79.8	40-140			
2-Methylnaphthalene (SIM)	35.9	25	µg/L	50.0		71.8	40-140			
Naphthalene (SIM)	35.2	25	µg/L	50.0		70.4	40-140			
Phenanthrene (SIM)	39.3	1.2	µg/L	50.0		78.6	40-140			B
Pyrene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Surrogate: Nitrobenzene-d5	*79.7*		µg/L	100		79.7	30-130			
Surrogate: 2-Fluorobiphenyl	*86.6*		µg/L	100		86.6	30-130			
Surrogate: p-Terphenyl-d14	*72.9*		µg/L	100		72.9	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 B186799 - SW-846 3510C											
LCS Dup (B186799-BSD1)				Prepared: 09/21/17 Analyzed: 09/22/17							
Acenaphthene (SIM)	37.2	7.5	µg/L	50.0		74.4	40-140	1.86	20		
Acenaphthylene (SIM)	36.2	7.5	µg/L	50.0		72.4	40-140	2.05	20		
Anthracene (SIM)	39.7	5.0	µg/L	50.0		79.4	40-140	1.56	20		
Benzo(a)anthracene (SIM)	39.6	1.2	µg/L	50.0		79.3	40-140	3.10	20		
Benzo(a)pyrene (SIM)	41.3	2.5	µg/L	50.0		82.6	40-140	2.80	20		
Benzo(b)fluoranthene (SIM)	42.6	1.2	µg/L	50.0		85.2	40-140	2.15	20		
Benzo(g,h,i)perylene (SIM)	38.3	12	µg/L	50.0		76.6	40-140	2.64	20		
Benzo(k)fluoranthene (SIM)	41.3	5.0	µg/L	50.0		82.6	40-140	2.63	20		
Chrysene (SIM)	40.0	5.0	µg/L	50.0		80.0	40-140	2.77	20		
Dibenz(a,h)anthracene (SIM)	39.1	5.0	µg/L	50.0		78.2	40-140	4.01	20		
Fluoranthene (SIM)	38.7	12	µg/L	50.0		77.4	40-140	1.60	20		
Fluorene (SIM)	37.7	25	µg/L	50.0		75.4	40-140	2.75	20		
Indeno(1,2,3-cd)pyrene (SIM)	38.6	5.0	µg/L	50.0		77.2	40-140	3.38	20		‡
2-Methylnaphthalene (SIM)	35.2	25	µg/L	50.0		70.3	40-140	2.18	20		
Naphthalene (SIM)	35.6	25	µg/L	50.0		71.2	40-140	1.27	20		
Phenanthrene (SIM)	38.3	1.2	µg/L	50.0		76.6	40-140	2.58	20	B	
Pyrene (SIM)	39.6	25	µg/L	50.0		79.2	40-140	4.92	20		
Surrogate: Nitrobenzene-d5	*82.5*		µg/L	100		82.5	30-130				
Surrogate: 2-Fluorobiphenyl	*90.8*		µg/L	100		90.8	30-130				
Surrogate: p-Terphenyl-d14	*68.7*		µg/L	100		68.7	30-130				
Matrix Spike (B186799-MS1)	**Source: 17I0641-05**			Prepared: 09/21/17 Analyzed: 09/24/17							
Acenaphthene (SIM)	49.3	7.5	µg/L	50.0	7.54	83.5	40-140				
Acenaphthylene (SIM)	41.2	7.5	µg/L	50.0	0.605	81.1	40-140				
Anthracene (SIM)	45.6	5.0	µg/L	50.0	2.83	85.6	40-140				
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0	6.31	91.0	40-140				
Benzo(a)pyrene (SIM)	51.6	2.5	µg/L	50.0	5.02	93.2	40-140				
Benzo(b)fluoranthene (SIM)	53.2	1.2	µg/L	50.0	7.11	92.1	40-140				
Benzo(g,h,i)perylene (SIM)	49.2	12	µg/L	50.0	3.06	92.3	40-140				
Benzo(k)fluoranthene (SIM)	47.1	5.0	µg/L	50.0	2.41	89.3	40-140				
Chrysene (SIM)	52.2	5.0	µg/L	50.0	6.63	91.0	40-140				
Dibenz(a,h)anthracene (SIM)	42.3	5.0	µg/L	50.0	0.870	82.8	40-140				
Fluoranthene (SIM)	63.4	12	µg/L	50.0	15.7	95.4	40-140				
Fluorene (SIM)	45.0	25	µg/L	50.0	3.41	83.3	40-140				
Indeno(1,2,3-cd)pyrene (SIM)	48.6	5.0	µg/L	50.0	3.23	90.6	40-140				
2-Methylnaphthalene (SIM)	39.8	25	µg/L	50.0	0.697	78.1	40-140				
Naphthalene (SIM)	42.2	25	µg/L	50.0	3.40	77.5	40-140				
Phenanthrene (SIM)	59.4	1.2	µg/L	50.0	15.4	87.9	40-140			B	
Pyrene (SIM)	60.4	25	µg/L	50.0	12.7	95.5	40-140				
Surrogate: Nitrobenzene-d5	*87.0*		µg/L	100		87.0	30-130				
Surrogate: 2-Fluorobiphenyl	*90.2*		µg/L	100		90.2	30-130				
Surrogate: p-Terphenyl-d14	*77.2*		µg/L	100		77.2	30-130				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186874 - SW-846 3510C										
Blank (B186874-BLK1)				Prepared: 09/22/17 Analyzed: 09/28/17						
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	*1.58*		µg/L	2.00		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.52*		µg/L	2.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.71*		µg/L	2.00		85.3	30-150			
LCS (B186874-BS1)				Prepared: 09/22/17 Analyzed: 09/28/17						
Aroclor-1016	0.54	0.20	µg/L	0.500		107	40-140			
Aroclor-1016 [2C]	0.62	0.20	µg/L	0.500		123	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		90.9	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		87.9	40-140			
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.34*		µg/L	2.00		67.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.75*		µg/L	2.00		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.4	30-150			
LCS Dup (B186874-BSD1)				Prepared: 09/22/17 Analyzed: 09/28/17						
Aroclor-1016	0.49	0.20	µg/L	0.500		98.4	40-140	8.44	20	
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		107	40-140	14.1	20	
Aroclor-1260	0.47	0.20	µg/L	0.500		93.6	40-140	3.03	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.1	40-140	4.68	20	
Surrogate: Decachlorobiphenyl	*1.60*		µg/L	2.00		79.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.50*		µg/L	2.00		75.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.72*		µg/L	2.00		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.70*		µg/L	2.00		85.2	30-150			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186874 - SW-846 3510C											
Matrix Spike (B186874-MS1)		**Source: 17I0641-01**		Prepared: 09/22/17 Analyzed: 09/28/17							
Aroclor-1016	0.51	0.20	µg/L	0.500	ND	101		40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500	ND	95.2		40-140			
Aroclor-1260	8.4	0.20	µg/L	0.500	11	**-613**	*	40-140			MS-19
Aroclor-1260 [2C]	6.8	0.20	µg/L	0.500	9.7	**-592**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		53.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.962*		µg/L	2.00		48.1		30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.54*		µg/L	2.00		77.0		30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-13-1R

Lab Sample ID: 17I0641-01

Date(s) Analyzed: 09/29/2017 09/29/2017

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	38	
	1	0.000	0.000	0.000	11	
	2	0.000	0.000	0.000	9.7	21.2
	2	0.000	-0.030	0.030	42	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-14-2R

Lab Sample ID: 17I0641-02

Date(s) Analyzed: 09/29/2017 09/29/2017

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	1.8	
	1	0.000	0.000	0.000	0.79	
	2	0.000	-0.030	0.030	1.7	5.7
	2	0.000	0.000	0.000	0.72	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-14-3R

Lab Sample ID: 17I0641-03

Date(s) Analyzed: 09/29/2017 09/29/2017

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	8.1	
	1	0.000	0.000	0.000	1.7	
	2	0.000	-0.030	0.030	8.3	2.4
	2	0.000	0.000	0.000	1.6	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-15-1R

Lab Sample ID: 17I0641-04

Date(s) Analyzed: 09/29/2017 09/29/2017

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	5.7	
	2	0.000	-0.030	0.030	5.5	3.6
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.72	1.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-8-SO-4-1R

Lab Sample ID: 17I0641-06

Date(s) Analyzed: 09/29/2017 09/29/2017

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	2.7	
	1	0.000	0.000	0.000	1.4	
	2	0.000	0.000	0.000	1.3	7.4
	2	0.000	-0.030	0.030	2.9	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-8-SO-4-2R

Lab Sample ID: 17I0641-07

Date(s) Analyzed: 09/29/2017 09/29/2017

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	3.9	
	1	0.000	0.000	0.000	1.4	
	2	0.000	-0.030	0.030	4.1	5.0
	2	0.000	0.000	0.000	1.3	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-8-SO-4-3R

Lab Sample ID: 17I0641-08

Date(s) Analyzed: 09/29/2017 09/29/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.4	
	1	0.000	0.000	0.000	2.1	
	2	0.000	0.000	0.000	1.9	10.0
	2	0.000	-0.030	0.030	5.7	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-8-SO-4-3R

Lab Sample ID: 17I0641-08RE1

Date(s) Analyzed: 10/02/2017 10/02/2017

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-1260	1	0.000	-0.030	0.030	5.3	
	2	0.000	-0.030	0.030	5.0	5.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-4-1R

Lab Sample ID: 17I0641-09

Date(s) Analyzed: 09/29/2017 09/29/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.8	
	2	0.000	-0.030	0.030	5.8	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-7-2R

Lab Sample ID: 17I0641-10

Date(s) Analyzed: 09/29/2017 09/29/2017

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	1.6	
	2	0.000	-0.030	0.030	1.6	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-9-1R

Lab Sample ID: 17I0641-11

Date(s) Analyzed: 09/28/2017 09/28/2017

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	0.68	
	1	0.000	-0.030	0.030	11	
	2	0.000	0.000	0.000	0.58	15.9
	2	0.000	-0.030	0.030	11	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-10-1R

Lab Sample ID: 17I0641-12

Date(s) Analyzed: 09/28/2017 09/28/2017

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	0.23	
	1	0.000	-0.030	0.030	0.88	
	2	0.000	-0.030	0.030	0.83	5.9
	2	0.000	0.000	0.000	0.21	9.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-16-2R

Lab Sample ID: 17I0641-13

Date(s) Analyzed: 09/29/2017 09/29/2017

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	33	
	1	0.000	0.000	0.000	2.0	
	2	0.000	-0.030	0.030	34	3.0
	2	0.000	0.000	0.000	1.7	16.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-21-1R

Lab Sample ID: 17I0641-14

Date(s) Analyzed: 09/28/2017 09/28/2017

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	0.73	
	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	8.3	0.0
	2	0.000	0.000	0.000	0.71	2.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-23-4R

Lab Sample ID: 17I0641-15

Date(s) Analyzed: 09/28/2017 09/28/2017

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	0.82	
	1	0.000	-0.030	0.030	5.2	
	2	0.000	0.000	0.000	0.73	11.6
	2	0.000	-0.030	0.030	5.3	1.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-27-1R

Lab Sample ID: 17I0641-16

Date(s) Analyzed: 09/29/2017 09/29/2017

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	4.2	
	1	0.000	-0.030	0.030	14	
	2	0.000	-0.030	0.030	14	0.0
	2	0.000	0.000	0.000	3.5	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-31-1R

Lab Sample ID: 17I0641-17

Date(s) Analyzed: 09/29/2017 09/29/2017

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	15	
	1	0.000	0.000	0.000	0.69	
	2	0.000	0.000	0.000	0.60	15.4
	2	0.000	-0.030	0.030	15	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
E	Reported result is estimated. Value reported over verified calibration range.
H-06	Sample was extracted past the recommended holding time.
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-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
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.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-10	Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

17I0641

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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

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:	Jim J ~~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	SPLP PCBs	PAHs	SPLP PAHs									# of Containers
								I		I										[2] Preservation Code
								A		A										[3] Container Code
1	WS-AOC-07-SO-13-1R	9/14/17	0825		X	S	C	X	X											
2	WS-AOC-07-SO-14-2R	9/14/17	0830					X	X											
3	WS-AOC-07-SO-14-3R	9/14/17	0832					X	X											
4	WS-AOC-07-SO-15-1R	9/14/17	0820					X	X											
5	WS-AOC-8-SO-2-1R	9/14/17	0912							X	X									
6	WS-AOC-8-SO-4-1R	9/14/17	0913					X	X											
7	WS-AOC-8-SO-4-2R	9/14/17	0914					X	X											
8	WS-AOC-8-SO-4-3R	9/14/17	0915					X	X											
9	WS-AOC-9-SO-4-1R	9/14/17	1010					X	X											
10	WS-AOC-9-SO-7-2R	9/14/17	1012					X	X											

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

~~Please hold excess volumes for possible SPLP analyses.~~

Please 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:
Received by: (signature)	Date/Time: 1515 9/14/17
Relinquished by: (signature)	Date/Time: 9/14/17 1540
Received by: (signature)	Date/Time: 9-14-17 1540
Relinquished by: (signature)	Date/Time: 9-14-17 6:30
Received by: (signature)	Date/Time: 9/14/17 1830

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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17I0641

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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

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:	Tim S. ~~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	SPLP PCBs	PAHs	SPLP PAHs
11	WS-AOC-9-SO-9-1R	9/14/17	1024		X	S	U	X	X		
12	WS-AOC-9-SO-10-1R		1017					X	X		
13	WS-AOC-9-SO-16-2R		1027					X	X		
14	WS-AOC-9-SO-21-1R		1032					X	X		
15	WS-AOC-9-SO-23-4R		0952					X	X		
16	WS-AOC-9-SO-27-1R		1002					X	X		
17	WS-AOC-9-SO-31-1R		1054					X	X		
18	WS-AOC-9-SO-32-3R		1106							X	X
19	WS-AOC-9-SO-35-3R		1124							X	X
20	WS-AOC-9-SO-37-3R		1131							X	X

# of Containers	1
[2] Preservation Code	I
[3] Container Code	A

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
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X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

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

Comments:

~~Please hold excess volumes for possible SPLP analyses.~~
Please do MS/MSD for WS-AOC-9-SO-37-3R for only ~~PCB~~ PAH

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]	
Received by: (signature) [signature]	Date/Time: 9/14/17 1515
Relinquished by: (signature) [signature]	Date/Time: 9/14/17 1540
Received by: (signature) [signature]	Date/Time: 9-14-17 1540
Relinquished by: (signature) [signature]	Date/Time: 9-14-17 6:30
Received by: (signature) [signature] 2.2	Date/Time: 9/14/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 9/14/17 Time 1830

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 - 2-2
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? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

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

Unused Media

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

Comments:

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: 17I0641

Laboratory Sample ID(s):

17I0641-01 thru 17I0641-20

Sample Date(s):

09/14/2017

List RCP Methods Used:

, , 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:** **10/02/17**

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

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

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

October 3, 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: 17I1041

Enclosed are results of analyses for samples received by the laboratory on September 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

REPORT DATE: 10/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I1041

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-9-SO-29-2	17I1041-01	Soil		SM 2540G	
				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: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I1041

Date Received: 9/22/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I1041-01

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	90.3		% Wt	1		SM 2540G	9/25/17	9/25/17 9:58	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: 17I1041

Date Received: 9/22/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I1041-01

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/29/17	10/2/17 19:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		10/2/17 19:59
Decachlorobiphenyl [2]	115	30-150		10/2/17 19:59
Tetrachloro-m-xylene [1]	94.0	30-150		10/2/17 19:59
Tetrachloro-m-xylene [2]	92.3	30-150		10/2/17 19:59

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I1041-01 [WS-AOC-9-SO-29-2]	B186437	09/25/17

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/22/2017 per SW-846 1312 in Batch B186883**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I1041-01 [WS-AOC-9-SO-29-2]	B187381	200	2.00	09/29/17

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

QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B187381 - SW-846 3510C										
Blank (B187381-BLK1)				Prepared: 09/29/17 Analyzed: 10/02/17						
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	*1.48*		µg/L	2.00		74.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.72*		µg/L	2.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.69*		µg/L	2.00		84.7	30-150			
LCS (B187381-BS1)				Prepared: 09/29/17 Analyzed: 10/02/17						
Aroclor-1016	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		105	40-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		92.6	40-140			
Aroclor-1260 [2C]	0.52	0.20	µg/L	0.500		104	40-140			
Surrogate: Decachlorobiphenyl	*1.74*		µg/L	2.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.25*		µg/L	2.00		113	30-150			
Surrogate: Tetrachloro-m-xylene	*1.89*		µg/L	2.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.87*		µg/L	2.00		93.3	30-150			
LCS Dup (B187381-BSD1)				Prepared: 09/29/17 Analyzed: 10/02/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	4.98	20	
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		100	40-140	4.53	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.7	40-140	3.22	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	3.70	20	
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		82.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.16*		µg/L	2.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.81*		µg/L	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.79*		µg/L	2.00		89.3	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

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	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY

~~17I0378~~ 17I1041

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

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

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, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-POC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-POC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-POC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-POC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-POC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-POC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-POC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-POC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-POC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-POC-12W-SO-112-3	9/11/17	1217		X	S	U	X				

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.
Please do MS/MSD for WS-POC-12W-SO-112-2

Please reactivate sample 05 for SPLP PCB per client request - EES 9/22/17

Relinquished by: (signature)	Date/Time: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 1630
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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17I0378 | 17I1041

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 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	PCBs Soxhlet	ETPH	Arsenic
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X		
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X	
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X	
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X		
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X		
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X		
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X		
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X	
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	X	X	

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.
please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for any PCBs, and WS-AOC-12W-SO-110-2 for PCBs

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

Relinquished by: (signature)	Date/Time:
[signature]	9/11/17 1445
Received by: (signature) [signature]	Date/Time: 9/11/17 1445
Relinquished by: (signature) [signature]	Date/Time: 9/11/17 1505
Received by: (signature) [signature] 9/11/17	Date/Time: 1505
Relinquished by: (signature) [signature] 9/11/17	Date/Time: 430
Received by: (signature) [signature] 23,59	Date/Time: 9/11/17 1630

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By RLF Date 9/11/17 Time 1130

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.3°C
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17I1041

Laboratory Sample ID(s):

17I1041-01

Sample Date(s):

09/11/2017

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:** **10/03/17**

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: 17H0060

Enclosed are results of analyses for samples received by the laboratory on August 1, 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: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0060

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-AOC9-SO-33-3	17H0060-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-33-4	17H0060-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-44-1	17H0060-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-44-2	17H0060-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-44-3	17H0060-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-32-1	17H0060-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-32-2	17H0060-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-32-3	17H0060-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC9-SO-41-1	17H0060-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-41-2	17H0060-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-41-3A	17H0060-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-41-3B	17H0060-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC9-SO-35-1	17H0060-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-35-2	17H0060-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-35-3	17H0060-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC9-SO-37-1	17H0060-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-37-2	17H0060-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-37-3A	17H0060-18	Soil		SM 2540G	
				SW-846 8082A	

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

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

REPORT DATE: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0060

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-AOC9-SO-37-3B	17H0060-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC9-SO-39-1	17H0060-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

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

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

17H0060-08[WS-AOC9-SO-32-3], 17H0060-12[WS-AOC9-SO-41-3B], 17H0060-15[WS-AOC9-SO-35-3]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17H0060-08[WS-AOC9-SO-32-3], 17H0060-12[WS-AOC9-SO-41-3B], 17H0060-15[WS-AOC9-SO-35-3], 17H0060-19[WS-AOC9-SO-37-3B]

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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-33-3 Sampled: 8/1/2017 12:02

Sample ID: 17H0060-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/23/17 21:41
Decachlorobiphenyl [2]	80.6	30-150		8/23/17 21:41
Tetrachloro-m-xylene [1]	82.4	30-150		8/23/17 21:41
Tetrachloro-m-xylene [2]	83.0	30-150		8/23/17 21:41

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-33-3 Sampled: 8/1/2017 12:02

Sample ID: 17H0060-01

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	80.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-33-4 Sampled: 8/1/2017 12:03

Sample ID: 17H0060-02

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	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 21:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		8/23/17 21:59
Decachlorobiphenyl [2]	80.3	30-150		8/23/17 21:59
Tetrachloro-m-xylene [1]	78.4	30-150		8/23/17 21:59
Tetrachloro-m-xylene [2]	74.0	30-150		8/23/17 21:59

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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-33-4 Sampled: 8/1/2017 12:03

Sample ID: 17H0060-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.9		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-1 Sampled: 8/1/2017 13:40

Sample ID: 17H0060-03

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	8/14/17	8/23/17 22:17	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.9	30-150		8/23/17 22:17
Decachlorobiphenyl [2]	77.4	30-150		8/23/17 22:17
Tetrachloro-m-xylene [1]	88.7	30-150		8/23/17 22:17
Tetrachloro-m-xylene [2]	86.5	30-150		8/23/17 22:17

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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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-1 Sampled: 8/1/2017 13:40

Sample ID: 17H0060-03

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	92.7		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-2 Sampled: 8/1/2017 13:42

Sample ID: 17H0060-04

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	8/14/17	8/23/17 22:36	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		8/23/17 22:36
Decachlorobiphenyl [2]	71.6	30-150		8/23/17 22:36
Tetrachloro-m-xylene [1]	84.2	30-150		8/23/17 22:36
Tetrachloro-m-xylene [2]	87.2	30-150		8/23/17 22:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-2 Sampled: 8/1/2017 13:42

Sample ID: 17H0060-04

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	89.7		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-3 Sampled: 8/1/2017 13:44

Sample ID: 17H0060-05

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	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 22:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.8	30-150		8/23/17 22:54
Decachlorobiphenyl [2]	76.1	30-150		8/23/17 22:54
Tetrachloro-m-xylene [1]	83.3	30-150		8/23/17 22:54
Tetrachloro-m-xylene [2]	83.7	30-150		8/23/17 22:54

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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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-44-3 Sampled: 8/1/2017 13:44

Sample ID: 17H0060-05

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	82.6		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-1 Sampled: 8/1/2017 13:50

Sample ID: 17H0060-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		8/23/17 23:12
Decachlorobiphenyl [2]	83.2	30-150		8/23/17 23:12
Tetrachloro-m-xylene [1]	89.5	30-150		8/23/17 23:12
Tetrachloro-m-xylene [2]	88.4	30-150		8/23/17 23:12

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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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-1 Sampled: 8/1/2017 13:50

Sample ID: 17H0060-06

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	95.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-2 Sampled: 8/1/2017 13:51

Sample ID: 17H0060-07

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	8/14/17	8/23/17 23:31	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/23/17 23:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/23/17 23:31
Decachlorobiphenyl [2]	84.9	30-150		8/23/17 23:31
Tetrachloro-m-xylene [1]	84.9	30-150		8/23/17 23:31
Tetrachloro-m-xylene [2]	83.4	30-150		8/23/17 23:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-2 Sampled: 8/1/2017 13:51

Sample ID: 17H0060-07

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	89.9		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-3 Sampled: 8/1/2017 13:52

Sample ID: 17H0060-08

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.2	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Acenaphthylene	ND	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Anthracene	1.9	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Benzo(a)anthracene	4.8	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Benzo(a)pyrene	4.7	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Benzo(b)fluoranthene	5.0	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Benzo(g,h,i)perylene	2.2	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Benzo(k)fluoranthene	2.0	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Chrysene	3.7	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Dibenz(a,h)anthracene	ND	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Fluoranthene	11	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Fluorene	ND	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Indeno(1,2,3-cd)pyrene	2.2	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
2-Methylnaphthalene	ND	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Naphthalene	ND	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Phenanthrene	7.4	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL
Pyrene	10	1.2	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	50.6	30-130		8/15/17 11:00
2-Fluorobiphenyl	60.0	30-130		8/15/17 11:00
p-Terphenyl-d14	62.3	30-130		8/15/17 11:00

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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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-3 Sampled: 8/1/2017 13:52

Sample ID: 17H0060-08

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	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		8/24/17 0:38
Decachlorobiphenyl [2]	94.0	30-150		8/24/17 0:38
Tetrachloro-m-xylene [1]	85.9	30-150		8/24/17 0:38
Tetrachloro-m-xylene [2]	83.4	30-150		8/24/17 0:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-3 Sampled: 8/1/2017 13:52

Sample ID: 17H0060-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	820	430	mg/Kg dry	25		CTDEP ETPH	8/9/17	8/11/17 11:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/11/17 11:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-32-3 Sampled: 8/1/2017 13:52

Sample ID: 17H0060-08

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	58.4		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-1 Sampled: 8/1/2017 14:00

Sample ID: 17H0060-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 0:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		8/24/17 0:57
Decachlorobiphenyl [2]	85.3	30-150		8/24/17 0:57
Tetrachloro-m-xylene [1]	94.7	30-150		8/24/17 0:57
Tetrachloro-m-xylene [2]	93.2	30-150		8/24/17 0:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-1 Sampled: 8/1/2017 14:00

Sample ID: 17H0060-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-2 Sampled: 8/1/2017 14:02

Sample ID: 17H0060-10

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	8/14/17	8/24/17 1:15	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		8/24/17 1:15
Decachlorobiphenyl [2]	80.3	30-150		8/24/17 1:15
Tetrachloro-m-xylene [1]	85.4	30-150		8/24/17 1:15
Tetrachloro-m-xylene [2]	86.1	30-150		8/24/17 1:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-2 Sampled: 8/1/2017 14:02

Sample ID: 17H0060-10

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	86.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-3A Sampled: 8/1/2017 14:04

Sample ID: 17H0060-11

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	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.8	30-150		8/24/17 1:33
Decachlorobiphenyl [2]	89.3	30-150		8/24/17 1:33
Tetrachloro-m-xylene [1]	95.1	30-150		8/24/17 1:33
Tetrachloro-m-xylene [2]	99.0	30-150		8/24/17 1:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-3A Sampled: 8/1/2017 14:04

Sample ID: 17H0060-11

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	55.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-3B Sampled: 8/1/2017 14:06

Sample ID: 17H0060-12

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Acenaphthylene	ND	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Anthracene	2.0	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Benzo(a)anthracene	4.5	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Benzo(a)pyrene	3.6	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Benzo(b)fluoranthene	4.7	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Benzo(g,h,i)perylene	2.1	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Benzo(k)fluoranthene	1.6	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Chrysene	4.1	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Fluoranthene	8.9	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Fluorene	1.2	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Indeno(1,2,3-cd)pyrene	1.9	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
2-Methylnaphthalene	ND	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Naphthalene	ND	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Phenanthrene	10	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL
Pyrene	10	1.0	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.7	30-130		8/15/17 12:29
2-Fluorobiphenyl	42.9	30-130		8/15/17 12:29
p-Terphenyl-d14	50.3	30-130		8/15/17 12:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-3B Sampled: 8/1/2017 14:06

Sample ID: 17H0060-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1400	740	mg/Kg dry	50		CTDEP ETPH	8/9/17	8/11/17 11:00	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/11/17 11:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-41-3B Sampled: 8/1/2017 14:06

Sample ID: 17H0060-12

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	67.3		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-1 Sampled: 8/1/2017 14:10

Sample ID: 17H0060-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/15/17	8/17/17 15:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	116	30-150		8/17/17 15:56
Decachlorobiphenyl [2]	93.2	30-150		8/17/17 15:56
Tetrachloro-m-xylene [1]	97.7	30-150		8/17/17 15:56
Tetrachloro-m-xylene [2]	103	30-150		8/17/17 15:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-1 Sampled: 8/1/2017 14:10

Sample ID: 17H0060-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-2 Sampled: 8/1/2017 14:11

Sample ID: 17H0060-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 1:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/24/17 1:51
Decachlorobiphenyl [2]	92.4	30-150		8/24/17 1:51
Tetrachloro-m-xylene [1]	88.9	30-150		8/24/17 1:51
Tetrachloro-m-xylene [2]	87.5	30-150		8/24/17 1:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-2 Sampled: 8/1/2017 14:11

Sample ID: 17H0060-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-3 Sampled: 8/1/2017 14:12

Sample ID: 17H0060-15

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.2	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Acenaphthylene	ND	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Anthracene	1.4	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Benzo(a)anthracene	3.1	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Benzo(a)pyrene	2.9	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Benzo(b)fluoranthene	3.5	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Benzo(g,h,i)perylene	1.7	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Benzo(k)fluoranthene	1.1	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Chrysene	2.7	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Dibenz(a,h)anthracene	ND	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Fluoranthene	5.8	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Fluorene	1.0	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
2-Methylnaphthalene	ND	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Naphthalene	1.8	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Phenanthrene	5.1	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL
Pyrene	6.7	0.86	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 11:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	52.1	30-130		8/15/17 11:44
2-Fluorobiphenyl	49.4	30-130		8/15/17 11:44
p-Terphenyl-d14	57.8	30-130		8/15/17 11:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-3 Sampled: 8/1/2017 14:12

Sample ID: 17H0060-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		8/24/17 2:10
Decachlorobiphenyl [2]	76.4	30-150		8/24/17 2:10
Tetrachloro-m-xylene [1]	82.4	30-150		8/24/17 2:10
Tetrachloro-m-xylene [2]	78.5	30-150		8/24/17 2:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-3 Sampled: 8/1/2017 14:12

Sample ID: 17H0060-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	550	320	mg/Kg dry	25		CTDEP ETPH	8/9/17	8/11/17 11:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/11/17 11:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-35-3 Sampled: 8/1/2017 14:12

Sample ID: 17H0060-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-1 Sampled: 8/1/2017 14:30

Sample ID: 17H0060-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1260 [1]	3.2	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	8/14/17	8/24/17 12:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.9	30-150		8/24/17 12:52
Decachlorobiphenyl [2]	141	30-150		8/24/17 12:52
Tetrachloro-m-xylene [1]	89.9	30-150		8/24/17 12:52
Tetrachloro-m-xylene [2]	94.0	30-150		8/24/17 12:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-1 Sampled: 8/1/2017 14:30

Sample ID: 17H0060-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-2 Sampled: 8/1/2017 14:31

Sample ID: 17H0060-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 2:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.2	30-150		8/24/17 2:46
Decachlorobiphenyl [2]	69.4	30-150		8/24/17 2:46
Tetrachloro-m-xylene [1]	73.9	30-150		8/24/17 2:46
Tetrachloro-m-xylene [2]	75.5	30-150		8/24/17 2:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-2 Sampled: 8/1/2017 14:31

Sample ID: 17H0060-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-3A Sampled: 8/1/2017 14:32

Sample ID: 17H0060-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		8/24/17 3:04
Decachlorobiphenyl [2]	91.6	30-150		8/24/17 3:04
Tetrachloro-m-xylene [1]	88.8	30-150		8/24/17 3:04
Tetrachloro-m-xylene [2]	92.5	30-150		8/24/17 3:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-3A Sampled: 8/1/2017 14:32

Sample ID: 17H0060-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.6		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-3B Sampled: 8/1/2017 14:33

Sample ID: 17H0060-19

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Acenaphthylene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Anthracene	1.3	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Benzo(a)anthracene	2.6	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Benzo(a)pyrene	2.5	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Benzo(b)fluoranthene	2.6	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Benzo(g,h,i)perylene	1.3	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Benzo(k)fluoranthene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Chrysene	2.6	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Dibenz(a,h)anthracene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Fluoranthene	5.4	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Fluorene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Indeno(1,2,3-cd)pyrene	1.2	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
2-Methylnaphthalene	ND	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Naphthalene	1.2	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Phenanthrene	2.9	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL
Pyrene	6.2	1.1	mg/Kg dry	4		SW-846 8270D	8/9/17	8/15/17 12:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.1	30-130		8/15/17 12:06
2-Fluorobiphenyl	50.8	30-130		8/15/17 12:06
p-Terphenyl-d14	58.2	30-130		8/15/17 12:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-3B Sampled: 8/1/2017 14:33

Sample ID: 17H0060-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	480	79	mg/Kg dry	5		CTDEP ETPH	8/9/17	8/11/17 2:21	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.0	50-150		8/11/17 2:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-37-3B Sampled: 8/1/2017 14:33

Sample ID: 17H0060-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-39-1 Sampled: 8/1/2017 14:30

Sample ID: 17H0060-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/14/17	8/24/17 3:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/24/17 3:23
Decachlorobiphenyl [2]	92.1	30-150		8/24/17 3:23
Tetrachloro-m-xylene [1]	92.3	30-150		8/24/17 3:23
Tetrachloro-m-xylene [2]	92.7	30-150		8/24/17 3:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0060

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-39-1 Sampled: 8/1/2017 14:30

Sample ID: 17H0060-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.5		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0060-08 [WS-AOC9-SO-32-3]	B183690	30.0	1.00	08/09/17
17H0060-12 [WS-AOC9-SO-41-3B]	B183690	30.0	1.00	08/09/17
17H0060-15 [WS-AOC9-SO-35-3]	B183690	30.0	1.00	08/09/17
17H0060-19 [WS-AOC9-SO-37-3B]	B183690	30.0	1.00	08/09/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0060-01 [WS-AOC9-SO-33-3]	B183482	08/07/17
17H0060-02 [WS-AOC9-SO-33-4]	B183482	08/07/17
17H0060-03 [WS-AOC9-SO-44-1]	B183482	08/07/17
17H0060-04 [WS-AOC9-SO-44-2]	B183482	08/07/17
17H0060-05 [WS-AOC9-SO-44-3]	B183482	08/07/17
17H0060-06 [WS-AOC9-SO-32-1]	B183482	08/07/17
17H0060-07 [WS-AOC9-SO-32-2]	B183482	08/07/17
17H0060-08 [WS-AOC9-SO-32-3]	B183482	08/07/17
17H0060-09 [WS-AOC9-SO-41-1]	B183482	08/07/17
17H0060-10 [WS-AOC9-SO-41-2]	B183482	08/07/17
17H0060-11 [WS-AOC9-SO-41-3A]	B183482	08/07/17
17H0060-12 [WS-AOC9-SO-41-3B]	B183482	08/07/17
17H0060-13 [WS-AOC9-SO-35-1]	B183482	08/07/17
17H0060-14 [WS-AOC9-SO-35-2]	B183482	08/07/17
17H0060-15 [WS-AOC9-SO-35-3]	B183482	08/07/17
17H0060-16 [WS-AOC9-SO-37-1]	B183482	08/07/17
17H0060-17 [WS-AOC9-SO-37-2]	B183482	08/07/17
17H0060-18 [WS-AOC9-SO-37-3A]	B183482	08/07/17
17H0060-19 [WS-AOC9-SO-37-3B]	B183482	08/07/17
17H0060-20 [WS-AOC9-SO-39-1]	B183482	08/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0060-01 [WS-AOC9-SO-33-3]	B184003	10.0	10.0	08/14/17
17H0060-02 [WS-AOC9-SO-33-4]	B184003	10.4	10.0	08/14/17
17H0060-03 [WS-AOC9-SO-44-1]	B184003	10.0	10.0	08/14/17
17H0060-04 [WS-AOC9-SO-44-2]	B184003	10.2	10.0	08/14/17
17H0060-05 [WS-AOC9-SO-44-3]	B184003	10.2	10.0	08/14/17
17H0060-06 [WS-AOC9-SO-32-1]	B184003	10.2	10.0	08/14/17
17H0060-07 [WS-AOC9-SO-32-2]	B184003	10.1	10.0	08/14/17
17H0060-08 [WS-AOC9-SO-32-3]	B184003	10.0	10.0	08/14/17
17H0060-09 [WS-AOC9-SO-41-1]	B184003	10.1	10.0	08/14/17
17H0060-10 [WS-AOC9-SO-41-2]	B184003	10.2	10.0	08/14/17
17H0060-11 [WS-AOC9-SO-41-3A]	B184003	10.1	10.0	08/14/17
17H0060-14 [WS-AOC9-SO-35-2]	B184003	10.0	10.0	08/14/17
17H0060-15 [WS-AOC9-SO-35-3]	B184003	10.2	10.0	08/14/17
17H0060-16 [WS-AOC9-SO-37-1]	B184003	10.2	10.0	08/14/17
17H0060-17 [WS-AOC9-SO-37-2]	B184003	10.3	10.0	08/14/17
17H0060-18 [WS-AOC9-SO-37-3A]	B184003	10.0	10.0	08/14/17
17H0060-20 [WS-AOC9-SO-39-1]	B184003	10.2	10.0	08/14/17

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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
17H0060-13RE1 [WS-AOC9-SO-35-1]	B184180	10.5	10.0	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0060-08 [WS-AOC9-SO-32-3]	B183687	30.0	1.00	08/09/17
17H0060-12 [WS-AOC9-SO-41-3B]	B183687	30.0	1.00	08/09/17
17H0060-15 [WS-AOC9-SO-35-3]	B183687	30.0	1.00	08/09/17
17H0060-19 [WS-AOC9-SO-37-3B]	B183687	30.0	1.00	08/09/17

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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 B183687 - SW-846 3546										
Blank (B183687-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
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	*2.50*		mg/Kg wet	3.33		75.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2	30-130			
Surrogate: p-Terphenyl-d14	*3.14*		mg/Kg wet	3.33		94.1	30-130			
LCS (B183687-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140			
Benzo(g,h,i)perylene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140			
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140			
Fluorene	1.15	0.17	mg/Kg wet	1.67		69.3	40-140			
Indeno(1,2,3-cd)pyrene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Surrogate: Nitrobenzene-d5	*2.84*		mg/Kg wet	3.33		85.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.97*		mg/Kg wet	3.33		89.2	30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg wet	3.33		90.9	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 B183687 - SW-846 3546										
LCS Dup (B183687-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	8.10	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140	8.57	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	5.70	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	6.44	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	7.04	30	
Benzo(b)fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	4.43	30	
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	3.03	30	
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	8.07	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	6.52	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140	4.71	30	
Fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	6.02	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	6.44	30	
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140	4.73	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	10.2	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140	11.2	30	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		63.9	40-140	4.97	30	
Pyrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	5.31	30	
Surrogate: Nitrobenzene-d5	*2.54*		mg/Kg wet	3.33		76.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: p-Terphenyl-d14	*2.79*		mg/Kg wet	3.33		83.8	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 B184003 - SW-846 3540C										
Blank (B184003-BLK1)				Prepared: 08/14/17 Analyzed: 08/23/17						
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]	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS (B184003-BS1)				Prepared: 08/14/17 Analyzed: 08/23/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.8	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.7	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.4	40-140			
Surrogate: Decachlorobiphenyl	*0.173*		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.200		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.6	30-150			
LCS Dup (B184003-BSD1)				Prepared: 08/14/17 Analyzed: 08/23/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.5	40-140	6.42	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.9	40-140	7.01	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.2	40-140	4.67	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.4	40-140	7.84	30	
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.173*		mg/Kg wet	0.200		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		86.1	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 B184003 - SW-846 3540C										
Matrix Spike (B184003-MS1)		**Source: 17H0060-01**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.26	0.12	mg/Kg dry	0.245	ND	107	40-140			
Aroclor-1016 [2C]	0.24	0.12	mg/Kg dry	0.245	ND	98.5	40-140			
Aroclor-1260	0.21	0.12	mg/Kg dry	0.245	ND	85.5	40-140			
Aroclor-1260 [2C]	0.24	0.12	mg/Kg dry	0.245	ND	98.8	40-140			
Surrogate: Decachlorobiphenyl	*0.229*		mg/Kg dry	0.245		93.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.245		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.236*		mg/Kg dry	0.245		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.245		97.3	30-150			
Matrix Spike (B184003-MS2)		**Source: 17H0060-05**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.25	0.12	mg/Kg dry	0.237	ND	104	40-140			
Aroclor-1016 [2C]	0.26	0.12	mg/Kg dry	0.237	ND	108	40-140			
Aroclor-1260	0.20	0.12	mg/Kg dry	0.237	ND	84.5	40-140			
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.237	ND	92.4	40-140			
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg dry	0.237		93.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg dry	0.237		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.213*		mg/Kg dry	0.237		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.237		89.4	30-150			
Matrix Spike Dup (B184003-MSD1)		**Source: 17H0060-01**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.22	0.12	mg/Kg dry	0.245	ND	88.0	40-140	19.5	50	
Aroclor-1016 [2C]	0.22	0.12	mg/Kg dry	0.245	ND	88.6	40-140	10.6	50	
Aroclor-1260	0.17	0.12	mg/Kg dry	0.245	ND	71.2	40-140	18.3	50	
Aroclor-1260 [2C]	0.20	0.12	mg/Kg dry	0.245	ND	83.2	40-140	17.1	50	
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg dry	0.245		74.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.184*		mg/Kg dry	0.245		75.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.245		77.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.245		76.1	30-150			
Matrix Spike Dup (B184003-MSD2)		**Source: 17H0060-05**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.24	0.12	mg/Kg dry	0.237	ND	101	40-140	3.18	50	
Aroclor-1016 [2C]	0.24	0.12	mg/Kg dry	0.237	ND	102	40-140	6.36	50	
Aroclor-1260	0.20	0.12	mg/Kg dry	0.237	ND	83.4	40-140	1.22	50	
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.237	ND	93.0	40-140	0.696	50	
Surrogate: Decachlorobiphenyl	*0.222*		mg/Kg dry	0.237		93.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.222*		mg/Kg dry	0.237		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg dry	0.237		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.237		88.0	30-150			
Batch B184180 - SW-846 3540C										
Blank (B184180-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
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							

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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 B184180 - SW-846 3540C										
Blank (B184180-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
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	*0.193*		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		79.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		mg/Kg wet	0.200		72.6	30-150			
LCS (B184180-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.2	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		73.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.5	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.9	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.158*		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.154*		mg/Kg wet	0.200		77.1	30-150			
LCS Dup (B184180-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.5	40-140	12.3	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.1	40-140	11.7	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	10.4	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.4	40-140	12.3	30	
Surrogate: Decachlorobiphenyl	*0.217*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.189*		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		86.8	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 B183690 - SW-846 3546										
Blank (B183690-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.48*		mg/Kg wet	3.33		74.3	50-150			
LCS (B183690-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	20.2	10	mg/Kg wet	33.3		60.6	60-120			
Surrogate: o-Terphenyl	*2.62*		mg/Kg wet	3.33		78.7	50-150			
LCS Dup (B183690-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	21.0	10	mg/Kg wet	33.3		62.9	60-120	3.78	30	
Surrogate: o-Terphenyl	*2.41*		mg/Kg wet	3.33		72.3	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 B183482 - % Solids										
Duplicate (B183482-DUP5)		**Source: 17H0060-01**		Prepared: 08/07/17 Analyzed: 08/08/17						
% Solids	84.1		% Wt		80.1			4.87	20	
Duplicate (B183482-DUP6)		**Source: 17H0060-05**		Prepared: 08/07/17 Analyzed: 08/08/17						
% Solids	87.3		% Wt		82.6			5.53	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC9-SO-37-1

Lab Sample ID: 17H0060-16

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	3.2	
	2	0.000	-0.030	0.030	3.1	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.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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

con-test ANALYTICAL LABORATORY

17H00060

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

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

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									# of Containers
01	WS-AOC9-SO-33-3	8/1/17	12:02		X	S	U	X											[2] Preservation Code
02	WS-AOC9-SO-33-4		12:03					X											[3] Container Code
03	WS-AOC9-SO-44-1		13:40					X											
04	WS-AOC9-SO-44-2		13:42					X											
05	WS-AOC9-SO-44-3		13:44					X											
06	WS-AOC9-SO-32-1		13:50					X											
07	WS-AOC9-SO-32-2		13:51					X											
08	WS-AOC9-SO-32-3		13:52					X	X	X									
09	WS-AOC9-SO-41-1		14:00					X											
10	WS-AOC9-SO-41-2		14:02					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-AOC9-SO-33-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC9-SO-44-3 (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: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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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17H0360

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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

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	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC9-SO-41-3A	8/1/17	14:04		X	S	U	X					
12	WS-AOC9-SO-41-3B	↓	14:06		↓	↓	↓		X	X			
13	WS-AOC9-SO-35-1		14:10					X					
14	WS-AOC9-SO-35-2		14:11					X					
15	WS-AOC9-SO-35-3		14:12					X	X	X			
16	WS-AOC9-SO-37-1		14:30					X					
17	WS-AOC9-SO-37-2		14:31					X					
18	WS-AOC9-SO-37-3A		14:32					X					
19	WS-AOC9-SO-37-3B		14:33						X	X			
20	WS-AOC9-SO-39-1	↓	14:30		↓	↓	↓	X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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 JM Date 8/1/17 Time 1700

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, 2.8, 3.2
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? T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	26
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A081017\A0810136.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/11/17
Data File Name	A0810136.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	435358	470258	-7
c - 10	1.64	456223	470258	-3
c - 12	2.37	471193	470258	0
c - 14	3.05	478981	470258	2
c - 16	3.66	487842	470258	4
c - 18	4.29	479938	470258	2
o-Terphenyl	4.57	529315	470258	
c - 20	4.90	482405	470258	3
c - 22	5.40	485267	470258	3
c - 24	5.84	448462	470258	-5
c - 26	6.24	470109	470258	0
c - 28	6.60	467341	470258	-1
c - 30	6.93	473368	470258	1
c - 32	7.25	471057	470258	0
c - 34	7.54	474019	470258	1
c - 36	7.89	472309	470258	0

* One compound allowed %D <= 50%

Samples

17H0060-12@50X
17H0060-15@25X
17H0060-08@25X
17G1309-03RE1@10X

8/11/17 12:16 PM

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: 17H0060

Laboratory Sample ID(s):

17H0060-01 thru 17H0060-20

Sample Date(s):

08/01/2017

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:** **08/24/17**

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 1, 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: 17H0064

Enclosed are results of analyses for samples received by the laboratory on August 1, 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: 9/1/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0064

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-116	17H0064-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-117	17H0064-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-118	17H0064-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-119	17H0064-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-120	17H0064-05	Product/Solid		SW-846 8082A	
WS-AOC9-SO-DUP-39	17H0064-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC3-SO-DUP-40	17H0064-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC9-SO-DUP-41	17H0064-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-42	17H0064-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-43	17H0064-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC9-SO-DUP-44	17H0064-11	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.

REVISED REPORT - 9/1/2017 - 17H0064-11 ID revised.

con-test® ANALYTICAL LABORATORY

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

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

17H0064-10[WS-AOC9-SO-DUP-43]

SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc

17H0064-07[WS-AOC3-SO-DUP-40], B183630-BLK1, B183630-BS1, B183630-BSD1

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Zinc

17H0064-07[WS-AOC3-SO-DUP-40]

L-10

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.

Analyte & Samples(s) Qualified:

Lead

17H0064-07[WS-AOC3-SO-DUP-40], B183630-MRL1

SW-846 8260C

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

17H0064-07[WS-AOC3-SO-DUP-40], B183261-BLK1, B183261-BS1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

Fluoranthene

17H0064-10[WS-AOC9-SO-DUP-43]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

17H0064-07[WS-AOC3-SO-DUP-40], B183689-BLK1, B183689-BS1, B183689-BSD1

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

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

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

Meghan E. Kelley
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-116 Sampled: 8/1/2017 14:50

Sample ID: 17H0064-01

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	8/7/17	8/11/17 1:01	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		8/11/17 1:01
Decachlorobiphenyl [2]	102	30-150		8/11/17 1:01
Tetrachloro-m-xylene [1]	81.7	30-150		8/11/17 1:01
Tetrachloro-m-xylene [2]	93.8	30-150		8/11/17 1:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-117 Sampled: 8/1/2017 14:55

Sample ID: 17H0064-02

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	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		8/11/17 1:19
Decachlorobiphenyl [2]	107	30-150		8/11/17 1:19
Tetrachloro-m-xylene [1]	97.7	30-150		8/11/17 1:19
Tetrachloro-m-xylene [2]	109	30-150		8/11/17 1:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-118 Sampled: 8/1/2017 14:40

Sample ID: 17H0064-03

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	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		8/11/17 1:36
Decachlorobiphenyl [2]	106	30-150		8/11/17 1:36
Tetrachloro-m-xylene [1]	96.9	30-150		8/11/17 1:36
Tetrachloro-m-xylene [2]	109	30-150		8/11/17 1:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-119 Sampled: 8/1/2017 14:35

Sample ID: 17H0064-04

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	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		8/11/17 1:54
Decachlorobiphenyl [2]	99.4	30-150		8/11/17 1:54
Tetrachloro-m-xylene [1]	93.6	30-150		8/11/17 1:54
Tetrachloro-m-xylene [2]	103	30-150		8/11/17 1:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-120 Sampled: 8/1/2017 14:30

Sample ID: 17H0064-05

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	8/7/17	8/11/17 2:11	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/11/17 2:11
Decachlorobiphenyl [2]	101	30-150		8/11/17 2:11
Tetrachloro-m-xylene [1]	95.8	30-150		8/11/17 2:11
Tetrachloro-m-xylene [2]	106	30-150		8/11/17 2:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-39 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.6	30-150		8/24/17 21:32
Decachlorobiphenyl [2]	86.2	30-150		8/24/17 21:32
Tetrachloro-m-xylene [1]	75.2	30-150		8/24/17 21:32
Tetrachloro-m-xylene [2]	79.7	30-150		8/24/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-39 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Acrylonitrile	ND	0.0044	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromomethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloromethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg dry	1	V-16	SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Vinyl Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		8/3/17 16:12
Toluene-d8	104	70-130		8/3/17 16:12
4-Bromofluorobenzene	101	70-130		8/3/17 16:12

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(a)anthracene	0.93	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(a)pyrene	0.82	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(b)fluoranthene	1.1	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(g,h,i)perylene	0.59	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(k)fluoranthene	0.43	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chloro-3-methylphenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Chrysene	0.97	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dibenz(a,h)anthracene	0.18	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Fluoranthene	1.3	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Indeno(1,2,3-cd)pyrene	0.57	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Phenanthrene	0.54	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pyrene	1.4	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.3	30-130		8/10/17 20:59
Phenol-d6	57.4	30-130		8/10/17 20:59
Nitrobenzene-d5	68.8	30-130		8/10/17 20:59
2-Fluorobiphenyl	73.7	30-130		8/10/17 20:59
2,4,6-Tribromophenol	63.3	30-130		8/10/17 20:59
p-Terphenyl-d14	74.9	30-130		8/10/17 20:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		8/24/17 21:44
Decachlorobiphenyl [2]	90.5	30-150		8/24/17 21:44
Tetrachloro-m-xylene [1]	83.9	30-150		8/24/17 21:44
Tetrachloro-m-xylene [2]	87.4	30-150		8/24/17 21:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	34	10	mg/Kg dry	1		CTDEP ETPH	8/9/17	8/10/17 13:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.6	50-150		8/10/17 13:49

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Barium	36	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Beryllium	0.34	0.25	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Chromium	8.1	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Copper	36	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Lead	27	0.74	mg/Kg dry	1	L-10	SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Mercury	0.048	0.025	mg/Kg dry	1		SW-846 7471B	8/8/17	8/10/17 11:23	SCB
Nickel	11	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Vanadium	16	0.99	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Zinc	83	0.99	mg/Kg dry	1	B, B-07	SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	97.6		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-41 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-08

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	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/24/17 21:56
Decachlorobiphenyl [2]	94.6	30-150		8/24/17 21:56
Tetrachloro-m-xylene [1]	91.8	30-150		8/24/17 21:56
Tetrachloro-m-xylene [2]	95.5	30-150		8/24/17 21:56

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-41 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-08

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	95.3		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-42 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/24/17 22:09
Decachlorobiphenyl [2]	93.9	30-150		8/24/17 22:09
Tetrachloro-m-xylene [1]	93.7	30-150		8/24/17 22:09
Tetrachloro-m-xylene [2]	93.2	30-150		8/24/17 22:09

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-42 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.52	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Acenaphthylene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Anthracene	1.1	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(a)anthracene	2.3	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(a)pyrene	2.2	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(b)fluoranthene	2.5	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(g,h,i)perylene	1.7	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(k)fluoranthene	0.88	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Chrysene	2.2	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Dibenz(a,h)anthracene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Fluoranthene	5.1	0.52	mg/Kg dry	2	RL-12	SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Fluorene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Indeno(1,2,3-cd)pyrene	1.4	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
2-Methylnaphthalene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Naphthalene	0.83	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Phenanthrene	3.0	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Pyrene	5.6	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	33.7	30-130		8/15/17 20:35
2-Fluorobiphenyl	30.9	30-130		8/15/17 20:35
p-Terphenyl-d14	37.2	30-130		8/15/17 20:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	380	mg/Kg dry	25		CTDEP ETPH	8/9/17	8/11/17 1:09	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/11/17 1:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-44 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-11

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	8/9/17	8/24/17 22:21	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		8/24/17 22:21
Decachlorobiphenyl [2]	90.2	30-150		8/24/17 22:21
Tetrachloro-m-xylene [1]	84.6	30-150		8/24/17 22:21
Tetrachloro-m-xylene [2]	91.0	30-150		8/24/17 22:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-44 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-11

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	91.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183688	30.0	1.00	08/09/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183688	30.0	1.00	08/09/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0064-06 [WS-AOC9-SO-DUP-39]	B183482	08/07/17
17H0064-07 [WS-AOC3-SO-DUP-40]	B183482	08/07/17
17H0064-08 [WS-AOC9-SO-DUP-41]	B183482	08/07/17
17H0064-09 [WS-AOC9-SO-DUP-42]	B183482	08/07/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183482	08/07/17
17H0064-11 [WS-AOC9-SO-DUP-44]	B183482	08/07/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183630	1.04	50.0	08/08/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183537	0.603	50.0	08/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-01 [WS-AOC-12W-CO-116]	B183543	2.10	10.0	08/07/17
17H0064-02 [WS-AOC-12W-CO-117]	B183543	2.48	10.0	08/07/17
17H0064-03 [WS-AOC-12W-CO-118]	B183543	2.04	10.0	08/07/17
17H0064-04 [WS-AOC-12W-CO-119]	B183543	2.39	10.0	08/07/17
17H0064-05 [WS-AOC-12W-CO-120]	B183543	2.16	10.0	08/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-06 [WS-AOC9-SO-DUP-39]	B183729	10.0	10.0	08/09/17
17H0064-07 [WS-AOC3-SO-DUP-40]	B183729	10.0	10.0	08/09/17
17H0064-08 [WS-AOC9-SO-DUP-41]	B183729	10.0	10.0	08/09/17
17H0064-09 [WS-AOC9-SO-DUP-42]	B183729	10.0	10.0	08/09/17
17H0064-11 [WS-AOC9-SO-DUP-44]	B183729	10.0	10.0	08/09/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183261	7.02	10.0	08/03/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183689	30.0	1.00	08/09/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183689	30.0	1.00	08/09/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
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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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 B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
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	*0.0504*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0527*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0516*		mg/Kg wet	0.0500		103	70-130			
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	70-130			
Acrylonitrile	0.0258	0.0060	mg/Kg wet	0.0200		129	70-130			
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Bromobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130			
Bromodichloromethane	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
Bromoform	0.0161	0.0020	mg/Kg wet	0.0200		80.5	70-130			
Bromomethane	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120	70-130			
n-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
sec-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Carbon Disulfide	0.202	0.0060	mg/Kg wet	0.200		101	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
Chlorodibromomethane	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
Chloroethane	0.0169	0.020	mg/Kg wet	0.0200		84.7	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.4	70-130			
Chloromethane	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
2-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
4-Chlorotoluene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,2-Dibromoethane (EDB)	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
Dibromomethane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,4-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
trans-1,4-Dichloro-2-butene	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0222	0.020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102	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 B183261 - SW-846 5035										
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
trans-1,2-Dichloroethylene	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130			
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,1-Dichloropropene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.4	70-130			
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
2-Hexanone (MBK)	0.229	0.020	mg/Kg wet	0.200		114	70-130			
Isopropylbenzene (Cumene)	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		93.1	70-130			
Methylene Chloride	0.0233	0.020	mg/Kg wet	0.0200		117	70-130			
4-Methyl-2-pentanone (MIBK)	0.233	0.020	mg/Kg wet	0.200		116	70-130			
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		80.9	70-130			
n-Propylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Styrene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,1,2-Tetrachloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130			V-16
Toluene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,2,3-Trichlorobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0506*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0531*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0520*		mg/Kg wet	0.0500		104	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 B183689 - SW-846 3546										
Blank (B183689-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183689 - SW-846 3546										
Blank (B183689-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*5.26*		mg/Kg wet	6.67		79.0	30-130			
Surrogate: Phenol-d6	*5.05*		mg/Kg wet	6.67		75.7	30-130			
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg wet	3.33		82.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.84*		mg/Kg wet	3.33		85.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.74*		mg/Kg wet	6.67		101	30-130			
Surrogate: p-Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104	30-130			
LCS (B183689-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Acenaphthene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Acenaphthylene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140			
Aniline	1.03	0.34	mg/Kg wet	1.67		61.8	40-140			†
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140			
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140			
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140			
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.1	40-140			
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
Bis(2-chloroisopropyl)ether	1.10	0.34	mg/Kg wet	1.67		65.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.55	0.34	mg/Kg wet	1.67		93.2	40-140			
4-Bromophenylphenylether	1.40	0.34	mg/Kg wet	1.67		83.7	40-140			
Butylbenzylphthalate	1.48	0.34	mg/Kg wet	1.67		88.7	40-140			
Carbazole	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
4-Chloroaniline	0.988	0.66	mg/Kg wet	1.67		59.3	40-140			†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		81.0	30-130			
2-Chloronaphthalene	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
2-Chlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130			
4-Chlorophenylphenylether	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
Chrysene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140			
Dibenz(a,h)anthracene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140			
Dibenzofuran	1.31	0.34	mg/Kg wet	1.67		78.8	40-140			
Di-n-butylphthalate	1.34	0.34	mg/Kg wet	1.67		80.7	40-140			
3,3-Dichlorobenzidine	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			†
2,4-Dichlorophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130			
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		84.1	40-140			
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130			
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.4	40-140			
4,6-Dinitro-2-methylphenol	1.07	0.34	mg/Kg wet	1.67		64.5	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 B183689 - SW-846 3546											
LCS (B183689-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17							
2,4-Dinitrophenol	0.782	0.66	mg/Kg wet	1.67		46.9	30-130				
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140				
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Di-n-octylphthalate	1.41	0.34	mg/Kg wet	1.67		84.5	40-140				
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		75.9	40-140				
Fluorene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140				
Hexachlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.1	40-140				
Hexachlorobutadiene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
Hexachlorocyclopentadiene	0.856	0.34	mg/Kg wet	1.67		51.4	30-140				
Hexachloroethane	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				
Indeno(1,2,3-cd)pyrene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140				
Isophorone	1.27	0.34	mg/Kg wet	1.67		75.9	40-140				
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140				
2-Methylphenol	1.11	0.34	mg/Kg wet	1.67		66.7	30-130				
3/4-Methylphenol	1.13	0.34	mg/Kg wet	1.67		67.8	30-130				
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140				
2-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.1	40-140				
3-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.9	40-140				†
4-Nitroaniline	1.23	0.34	mg/Kg wet	1.67		73.9	40-140				
Nitrobenzene	1.23	0.34	mg/Kg wet	1.67		73.5	40-140				
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1	30-130				
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.3	10-130				
N-Nitrosodiphenylamine	1.76	0.34	mg/Kg wet	1.67		105	40-140				
N-Nitrosodi-n-propylamine	1.15	0.34	mg/Kg wet	1.67		69.2	40-140				
Pentachloronitrobenzene	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			V-16	
Pentachlorophenol	0.872	0.34	mg/Kg wet	1.67		52.3	30-130				
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140				
Phenol	1.12	0.34	mg/Kg wet	1.67		67.1	20-130				
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140				
Pyridine	0.832	0.34	mg/Kg wet	1.67		49.9	10-140				†
1,2,4,5-Tetrachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140				
1,2,4-Trichlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140				
2,4,5-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.0	30-130				
2,4,6-Trichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130				
Surrogate: 2-Fluorophenol	*5.54*		mg/Kg wet	6.67		83.1	30-130				
Surrogate: Phenol-d6	*5.42*		mg/Kg wet	6.67		81.2	30-130				
Surrogate: Nitrobenzene-d5	*2.99*		mg/Kg wet	3.33		89.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.15*		mg/Kg wet	3.33		94.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.51*		mg/Kg wet	6.67		113	30-130				
Surrogate: p-Terphenyl-d14	*3.40*		mg/Kg wet	3.33		102	30-130				
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140	7.64	30		
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	7.81	30		
Aniline	0.961	0.34	mg/Kg wet	1.67		57.6	40-140	6.93	50		† ‡
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	9.53	30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	8.54	30		
Benzo(a)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	7.49	30		
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	0.515	30		
Benzo(g,h,i)perylene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	8.76	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	9.28	30		
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.2	40-140	10.9	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B183689 - SW-846 3546											
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Bis(2-chloroethyl)ether	0.986	0.34	mg/Kg wet	1.67		59.2	40-140	9.56	30		
Bis(2-chloroisopropyl)ether	0.953	0.34	mg/Kg wet	1.67		57.2	40-140	14.3	30		
Bis(2-Ethylhexyl)phthalate	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	10.1	30		
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.67		77.5	40-140	7.66	30		
Butylbenzylphthalate	1.32	0.34	mg/Kg wet	1.67		79.4	40-140	11.1	30		
Carbazole	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	8.63	30		
4-Chloroaniline	0.936	0.66	mg/Kg wet	1.67		56.2	40-140	5.44	30		†
4-Chloro-3-methylphenol	1.22	0.66	mg/Kg wet	1.67		72.9	30-130	10.5	30		
2-Chloronaphthalene	0.961	0.34	mg/Kg wet	1.67		57.6	40-140	7.83	30		
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.3	30-130	8.60	30		
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.6	40-140	6.32	30		
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	9.43	30		
Dibenz(a,h)anthracene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	8.60	30		
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	7.23	30		
Di-n-butylphthalate	1.23	0.34	mg/Kg wet	1.67		73.6	40-140	9.20	30		
3,3-Dichlorobenzidine	0.957	0.17	mg/Kg wet	1.67		57.4	40-140	2.17	30		† ‡
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130	8.29	30		
Diethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	8.06	30		
2,4-Dimethylphenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130	9.14	30		
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.1	40-140	8.08	50		
4,6-Dinitro-2-methylphenol	0.998	0.34	mg/Kg wet	1.67		59.9	30-130	7.43	50		
2,4-Dinitrophenol	0.646	0.66	mg/Kg wet	1.67		38.8	30-130	19.1	50		
2,4-Dinitrotoluene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	9.59	30		
2,6-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	10.5	30		
Di-n-octylphthalate	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	9.91	30		
Fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	8.28	30		
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	7.58	30		
Hexachlorobenzene	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	7.89	30		
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	8.50	30		
Hexachlorocyclopentadiene	0.818	0.34	mg/Kg wet	1.67		49.1	30-140	4.62	50		
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.6	40-140	8.16	50		
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	10.1	50		
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	10.1	30		
Isophorone	1.12	0.34	mg/Kg wet	1.67		67.1	40-140	12.4	30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	10.5	30		
2-Methylphenol	0.991	0.34	mg/Kg wet	1.67		59.5	30-130	11.5	30		
3/4-Methylphenol	1.02	0.34	mg/Kg wet	1.67		61.1	30-130	10.3	30		
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	9.36	30		
2-Nitroaniline	1.17	0.34	mg/Kg wet	1.67		70.3	40-140	11.8	30		
3-Nitroaniline	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	3.41	30		†
4-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	11.4	30		
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	12.6	30		
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.0	30-130	8.81	30		
4-Nitrophenol	0.924	0.66	mg/Kg wet	1.67		55.5	10-130	13.3	50		‡
N-Nitrosodiphenylamine	1.62	0.34	mg/Kg wet	1.67		97.2	40-140	7.96	30		
N-Nitrosodi-n-propylamine	1.02	0.34	mg/Kg wet	1.67		61.3	40-140	12.0	30		
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	3.31	30	V-16	
Pentachlorophenol	0.799	0.34	mg/Kg wet	1.67		47.9	30-130	8.82	50		
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	8.84	30		
Phenol	1.01	0.34	mg/Kg wet	1.67		60.4	20-130	10.5	30		
Pyrene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	9.48	30		
Pyridine	0.753	0.34	mg/Kg wet	1.67		45.2	10-140	10.0	50		†

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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 B183689 - SW-846 3546										
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
1,2,4,5-Tetrachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	5.65	30	
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140	11.4	30	
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130	8.80	30	
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.6	30-130	6.83	50	
Surrogate: 2-Fluorophenol	*5.03*		mg/Kg wet	6.67		75.4	30-130			
Surrogate: Phenol-d6	*4.86*		mg/Kg wet	6.67		72.8	30-130			
Surrogate: Nitrobenzene-d5	*2.66*		mg/Kg wet	3.33		79.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.02*		mg/Kg wet	6.67		105	30-130			
Surrogate: p-Terphenyl-d14	*3.11*		mg/Kg wet	3.33		93.4	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183543 - SW-846 3540C										
Blank (B183543-BLK1)				Prepared: 08/07/17 Analyzed: 08/10/17						
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	*0.901*		mg/Kg	1.00		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.970*		mg/Kg	1.00		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
LCS (B183543-BS1)				Prepared: 08/07/17 Analyzed: 08/10/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		99.4	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		103	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Surrogate: Decachlorobiphenyl	*0.945*		mg/Kg	1.00		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B183543-BSD1)				Prepared: 08/07/17 Analyzed: 08/10/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		100	40-140	0.916	30	
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		103	40-140	0.551	30	
Aroclor-1260	0.90	0.10	mg/Kg	1.00		89.7	40-140	1.34	30	
Aroclor-1260 [2C]	0.90	0.10	mg/Kg	1.00		90.4	40-140	0.890	30	
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	1.00		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.968*		mg/Kg	1.00		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	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 B183543 - SW-846 3540C										
Matrix Spike (B183543-MS1)		**Source: 17H0064-01**		Prepared: 08/07/17 Analyzed: 08/11/17						
Aroclor-1016	0.78	0.085	mg/Kg	0.851	ND	91.9	40-140			
Aroclor-1016 [2C]	0.88	0.085	mg/Kg	0.851	ND	104	40-140			
Aroclor-1260	0.76	0.085	mg/Kg	0.851	ND	89.1	40-140			
Aroclor-1260 [2C]	0.80	0.085	mg/Kg	0.851	ND	93.7	40-140			
Surrogate: Decachlorobiphenyl	*0.807*		mg/Kg	0.851		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.884*		mg/Kg	0.851		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.686*		mg/Kg	0.851		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.772*		mg/Kg	0.851		90.7	30-150			
Matrix Spike Dup (B183543-MSD1)		**Source: 17H0064-01**		Prepared: 08/07/17 Analyzed: 08/11/17						
Aroclor-1016	0.74	0.082	mg/Kg	0.823	ND	89.5	40-140	5.91	50	
Aroclor-1016 [2C]	0.81	0.082	mg/Kg	0.823	ND	98.9	40-140	8.11	50	
Aroclor-1260	0.71	0.082	mg/Kg	0.823	ND	86.0	40-140	6.90	50	
Aroclor-1260 [2C]	0.74	0.082	mg/Kg	0.823	ND	90.0	40-140	7.43	50	
Surrogate: Decachlorobiphenyl	*0.764*		mg/Kg	0.823		92.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.828*		mg/Kg	0.823		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.635*		mg/Kg	0.823		77.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.712*		mg/Kg	0.823		86.5	30-150			
Batch B183729 - SW-846 3540C										
Blank (B183729-BLK1)				Prepared: 08/09/17 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	*0.170*		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		87.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183729 - SW-846 3540C										
LCS (B183729-BS1)				Prepared: 08/09/17 Analyzed: 08/24/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.5	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140			
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.1	30-150			
LCS Dup (B183729-BSD1)				Prepared: 08/09/17 Analyzed: 08/24/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.1	40-140	2.56	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.7	40-140	2.22	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.3	40-140	4.01	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	4.10	30	
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg wet	0.200		87.5	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 B183688 - SW-846 3546										
Blank (B183688-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.3	50-150			
LCS (B183688-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	22.0	10	mg/Kg wet	33.3		66.1	60-120			
Surrogate: o-Terphenyl	*2.66*		mg/Kg wet	3.33		79.9	50-150			
LCS Dup (B183688-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	22.0	10	mg/Kg wet	33.3		66.1	60-120	0.00241	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183537 - SW-846 7471										
Blank (B183537-BLK1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183537-BS1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	9.14	1.9	mg/Kg wet	9.36		97.6	73.7-126.3			
LCS Dup (B183537-BSD1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	8.96	1.9	mg/Kg wet	9.36		95.7	73.7-126.3	1.95	30	
Batch B183630 - SW-846 3050B										
Blank (B183630-BLK1)				Prepared: 08/08/17 Analyzed: 08/09/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	1.6	1.0	mg/Kg wet							B
LCS (B183630-BS1)				Prepared: 08/08/17 Analyzed: 08/09/17						
Antimony	71.2	5.0	mg/Kg wet	88.2		80.7	0-210.3			
Arsenic	51.9	5.0	mg/Kg wet	57.0		91.0	77.8-122.1			
Barium	107	5.0	mg/Kg wet	110		96.8	82-117.4			
Beryllium	69.6	0.50	mg/Kg wet	67.5		103	82.3-117.7			
Cadmium	78.1	0.50	mg/Kg wet	77.8		100	81.9-118.2			
Chromium	64.8	1.0	mg/Kg wet	65.0		99.7	78.7-120.6			
Copper	57.0	1.0	mg/Kg wet	56.4		101	80.4-119.6			
Lead	76.0	1.5	mg/Kg wet	85.6		88.8	82.4-117.8			
Nickel	60.1	1.0	mg/Kg wet	61.3		98.1	82.2-117.8			
Selenium	69.6	10	mg/Kg wet	78.9		88.3	77.1-122.3			
Silver	53.0	1.0	mg/Kg wet	54.2		97.7	74.3-125.4			
Thallium	164	5.0	mg/Kg wet	178		92.1	78.2-121.6			
Vanadium	49.6	2.0	mg/Kg wet	56.3		88.2	64.8-135.2			
Zinc	200	2.0	mg/Kg wet	198		101	79.7-120.8			B

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183630 - SW-846 3050B											
LCS Dup (B183630-BSD1)				Prepared: 08/08/17 Analyzed: 08/09/17							
Antimony	74.8	5.0	mg/Kg wet	88.2		84.8		0-210.3	4.95	30	
Arsenic	54.3	5.0	mg/Kg wet	57.0		95.3		77.8-122.1	4.65	30	
Barium	109	5.0	mg/Kg wet	110		98.7		82-117.4	1.86	30	
Beryllium	67.3	0.50	mg/Kg wet	67.5		99.7		82.3-117.7	3.42	30	
Cadmium	83.7	0.50	mg/Kg wet	77.8		108		81.9-118.2	6.98	30	
Chromium	67.6	0.99	mg/Kg wet	65.0		104		78.7-120.6	4.33	30	
Copper	58.9	0.99	mg/Kg wet	56.4		104		80.4-119.6	3.29	30	
Lead	76.5	1.5	mg/Kg wet	85.6		89.4		82.4-117.8	0.647	30	
Nickel	63.3	0.99	mg/Kg wet	61.3		103		82.2-117.8	5.15	30	
Selenium	73.8	9.9	mg/Kg wet	78.9		93.6		77.1-122.3	5.81	30	
Silver	56.3	0.99	mg/Kg wet	54.2		104		74.3-125.4	6.04	30	
Thallium	176	5.0	mg/Kg wet	178		99.0		78.2-121.6	7.19	30	
Vanadium	52.2	2.0	mg/Kg wet	56.3		92.7		64.8-135.2	4.97	30	
Zinc	206	2.0	mg/Kg wet	198		104		79.7-120.8	3.17	30	B
MRL Check (B183630-MRL1)				Prepared: 08/08/17 Analyzed: 08/09/17							
Lead	0.993	0.74	mg/Kg wet	0.735		**135**	*	80-120			L-10

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
L-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA

con-test® ANALYTICAL LABORATORY

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 Soil	
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH

con-test® ANALYTICAL LABORATORY

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
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA

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	
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
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
Fax: 413-525-6405
Email: info@contestlabs.com

17H00064

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	[2] Preservation Code	[3] Container Code
01	WS-AOC12W-CO-116	8/1/17	14:50		X	O		X			
02	WS-AOC12W-CO-117		14:55					X			
03	WS-AOC12W-CO-118		14:40					X			
04	WS-AOC12W-CO-119		14:35					X			
05	WS-AOC12W-CO-120		14:30					X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1556
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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 #

8/1/17 1700

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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17H0064

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
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	PAH	ETPH	SVOCs	RSR 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
06	WS-AOC9-SO-DUP-39	8/1/17			X	S	U	X								
07	WS-AOC3-SO-DUP-40							X		X	X	X	X			
08	WS-AOC9-SO-DUP-41							X								
09	WS-AOC9-SO-DUP-42							X								
10	WS-AOC9-SO-DUP-43							X	X	X						
11	WS-AOC9-SO-DUP-44							X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[2] **Preservation Codes:**
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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: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 3PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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 #

8/1/17 1700

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 JM Date 8/1/17 Time 1700

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, 2.8, 3.2
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	7
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	5
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/1/17 1700	
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\A081017.SEC\A0810007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/10/17
Data File Name	A0810007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	549789	587403	-6
c - 10	1.63	570796	587403	-3
c - 12	2.35	588096	587403	0
c - 14	3.01	598274	587403	2
c - 16	3.62	610876	587403	4
c - 18	4.23	602897	587403	3
o-Terphenyl	4.51	673282	587403	
c - 20	4.84	609692	587403	4
c - 22	5.34	618889	587403	5
c - 24	5.78	575484	587403	-2
c - 26	6.17	603193	587403	3
c - 28	6.53	591414	587403	1
c - 30	6.86	587541	587403	0
c - 32	7.17	570324	587403	-3
c - 34	7.46	568452	587403	-3
c - 36	7.78	565330	587403	-4

* One compound allowed %D <= 50%

Samples

17H0066-01RE1
17H0066-02RE1

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.

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September 6, 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: 17H1208

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

REPORT DATE: 9/6/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1208

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-9-AS-30	17H1208-01	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-31	17H1208-02	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-60	17H1208-03	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-61	17H1208-04	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-62	17H1208-05	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-63	17H1208-06	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-64	17H1208-07	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-32	17H1208-08	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-34	17H1208-09	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-35	17H1208-10	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-36	17H1208-11	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-38	17H1208-12	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-39	17H1208-13	Product/Solid		SW-846 8082A	
WS-AOC-9-AS-41	17H1208-14	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-42	17H1208-15	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-43	17H1208-16	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-DUP-15	17H1208-17	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-65	17H1208-18	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-66	17H1208-19	Product/Solid		SW-846 8082A	
WS-AOC-9-CO-67	17H1208-20	Product/Solid		SW-846 8082A	
EB-47	17H1208-21	Equipment Blank Water		SW-846 8082A	
EB-48	17H1208-22	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.

Revised Report: 9/6/2017

For method 8082 - Report format corrected.

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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-30 Sampled: 8/22/2017 10:00

Sample ID: 17H1208-01

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	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1221 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1232 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1242 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1248 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1254 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1260 [2]	9.2	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1262 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB
Aroclor-1268 [1]	ND	2.5	mg/Kg	25		SW-846 8082A	8/25/17	9/2/17 11:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.3	30-150		9/2/17 11:56
Decachlorobiphenyl [2]	116	30-150		9/2/17 11:56
Tetrachloro-m-xylene [1]	90.6	30-150		9/2/17 11:56
Tetrachloro-m-xylene [2]	90.5	30-150		9/2/17 11:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-31 Sampled: 8/22/2017 10:10

Sample ID: 17H1208-02

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	8/25/17	9/1/17 20:19	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.5	30-150		9/1/17 20:19
Decachlorobiphenyl [2]	113	30-150		9/1/17 20:19
Tetrachloro-m-xylene [1]	91.6	30-150		9/1/17 20:19
Tetrachloro-m-xylene [2]	91.8	30-150		9/1/17 20:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-60 Sampled: 8/22/2017 10:20

Sample ID: 17H1208-03

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	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1260 [2]	0.76	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 20:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		9/1/17 20:37
Decachlorobiphenyl [2]	103	30-150		9/1/17 20:37
Tetrachloro-m-xylene [1]	87.3	30-150		9/1/17 20:37
Tetrachloro-m-xylene [2]	88.3	30-150		9/1/17 20:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-61 Sampled: 8/22/2017 10:30

Sample ID: 17H1208-04

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 20:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 20:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.6	30-150		9/1/17 20:54
Decachlorobiphenyl [2]	85.5	30-150		9/1/17 20:54
Tetrachloro-m-xylene [1]	74.2	30-150		9/1/17 20:54
Tetrachloro-m-xylene [2]	74.4	30-150		9/1/17 20:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-62 Sampled: 8/22/2017 10:40

Sample ID: 17H1208-05

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 21:11	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		9/1/17 21:11
Decachlorobiphenyl [2]	107	30-150		9/1/17 21:11
Tetrachloro-m-xylene [1]	87.1	30-150		9/1/17 21:11
Tetrachloro-m-xylene [2]	88.0	30-150		9/1/17 21:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-63 Sampled: 8/22/2017 10:50

Sample ID: 17H1208-06

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		9/1/17 21:28
Decachlorobiphenyl [2]	94.5	30-150		9/1/17 21:28
Tetrachloro-m-xylene [1]	76.0	30-150		9/1/17 21:28
Tetrachloro-m-xylene [2]	77.7	30-150		9/1/17 21:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-64 Sampled: 8/22/2017 11:00

Sample ID: 17H1208-07

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 21:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		9/1/17 21:45
Decachlorobiphenyl [2]	100	30-150		9/1/17 21:45
Tetrachloro-m-xylene [1]	81.2	30-150		9/1/17 21:45
Tetrachloro-m-xylene [2]	81.6	30-150		9/1/17 21:45

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-32 Sampled: 8/22/2017 12:00

Sample ID: 17H1208-08

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	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		9/1/17 22:03
Decachlorobiphenyl [2]	106	30-150		9/1/17 22:03
Tetrachloro-m-xylene [1]	84.2	30-150		9/1/17 22:03
Tetrachloro-m-xylene [2]	85.0	30-150		9/1/17 22:03

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-34 Sampled: 8/22/2017 12:10

Sample ID: 17H1208-09

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	8/25/17	9/1/17 22:20	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 22:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		9/1/17 22:20
Decachlorobiphenyl [2]	106	30-150		9/1/17 22:20
Tetrachloro-m-xylene [1]	86.1	30-150		9/1/17 22:20
Tetrachloro-m-xylene [2]	88.2	30-150		9/1/17 22:20

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-35 Sampled: 8/22/2017 12:20

Sample ID: 17H1208-10

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	8/25/17	9/1/17 23:24	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		9/1/17 23:24
Decachlorobiphenyl [2]	106	30-150		9/1/17 23:24
Tetrachloro-m-xylene [1]	86.8	30-150		9/1/17 23:24
Tetrachloro-m-xylene [2]	87.7	30-150		9/1/17 23:24

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-36 Sampled: 8/22/2017 12:30

Sample ID: 17H1208-11

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	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.6	30-150		9/1/17 23:41
Decachlorobiphenyl [2]	104	30-150		9/1/17 23:41
Tetrachloro-m-xylene [1]	87.5	30-150		9/1/17 23:41
Tetrachloro-m-xylene [2]	90.1	30-150		9/1/17 23:41

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-38 Sampled: 8/22/2017 12:40

Sample ID: 17H1208-12

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	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 23:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.1	30-150		9/1/17 23:58
Decachlorobiphenyl [2]	81.9	30-150		9/1/17 23:58
Tetrachloro-m-xylene [1]	69.8	30-150		9/1/17 23:58
Tetrachloro-m-xylene [2]	70.5	30-150		9/1/17 23:58

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-39 Sampled: 8/22/2017 12:50

Sample ID: 17H1208-13

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	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/2/17 0:15
Decachlorobiphenyl [2]	97.3	30-150		9/2/17 0:15
Tetrachloro-m-xylene [1]	87.3	30-150		9/2/17 0:15
Tetrachloro-m-xylene [2]	88.3	30-150		9/2/17 0:15

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-AS-41 Sampled: 8/22/2017 13:00

Sample ID: 17H1208-14

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	8/25/17	9/2/17 0:33	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/2/17 0:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.5	30-150		9/2/17 0:33
Decachlorobiphenyl [2]	77.5	30-150		9/2/17 0:33
Tetrachloro-m-xylene [1]	65.3	30-150		9/2/17 0:33
Tetrachloro-m-xylene [2]	67.7	30-150		9/2/17 0:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-42 Sampled: 8/22/2017 13:10

Sample ID: 17H1208-15

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 0:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		9/2/17 0:50
Decachlorobiphenyl [2]	107	30-150		9/2/17 0:50
Tetrachloro-m-xylene [1]	95.7	30-150		9/2/17 0:50
Tetrachloro-m-xylene [2]	95.9	30-150		9/2/17 0:50

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-43 Sampled: 8/22/2017 13:20

Sample ID: 17H1208-16

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.7	30-150		9/2/17 1:07
Decachlorobiphenyl [2]	66.9	30-150		9/2/17 1:07
Tetrachloro-m-xylene [1]	61.0	30-150		9/2/17 1:07
Tetrachloro-m-xylene [2]	61.1	30-150		9/2/17 1:07

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-DUP-15 Sampled: 8/22/2017 00:00

Sample ID: 17H1208-17

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.7	30-150		9/2/17 1:24
Decachlorobiphenyl [2]	63.4	30-150		9/2/17 1:24
Tetrachloro-m-xylene [1]	56.1	30-150		9/2/17 1:24
Tetrachloro-m-xylene [2]	55.9	30-150		9/2/17 1:24

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-65 Sampled: 8/22/2017 13:30

Sample ID: 17H1208-18

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/2/17 1:41
Decachlorobiphenyl [2]	89.1	30-150		9/2/17 1:41
Tetrachloro-m-xylene [1]	77.7	30-150		9/2/17 1:41
Tetrachloro-m-xylene [2]	79.0	30-150		9/2/17 1:41

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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-66 Sampled: 8/22/2017 13:40

Sample ID: 17H1208-19

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 1:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/2/17 1:59
Decachlorobiphenyl [2]	91.9	30-150		9/2/17 1:59
Tetrachloro-m-xylene [1]	78.5	30-150		9/2/17 1:59
Tetrachloro-m-xylene [2]	79.1	30-150		9/2/17 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: 17H1208

Date Received: 8/22/2017

Field Sample #: WS-AOC-9-CO-67 Sampled: 8/22/2017 13:50

Sample ID: 17H1208-20

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/2/17 2:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		9/2/17 2:16
Decachlorobiphenyl [2]	108	30-150		9/2/17 2:16
Tetrachloro-m-xylene [1]	89.7	30-150		9/2/17 2:16
Tetrachloro-m-xylene [2]	90.0	30-150		9/2/17 2:16

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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: 17H1208

Date Received: 8/22/2017

Field Sample #: EB-47 Sampled: 8/22/2017 00:00

Sample ID: 17H1208-21

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/29/17 19:30
Decachlorobiphenyl [2]	111	30-150		8/29/17 19:30
Tetrachloro-m-xylene [1]	97.9	30-150		8/29/17 19:30
Tetrachloro-m-xylene [2]	98.8	30-150		8/29/17 19:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1208

Date Received: 8/22/2017

Field Sample #: EB-48 Sampled: 8/22/2017 00:00

Sample ID: 17H1208-22

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/25/17	8/29/17 19:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		8/29/17 19:42
Decachlorobiphenyl [2]	90.8	30-150		8/29/17 19:42
Tetrachloro-m-xylene [1]	94.8	30-150		8/29/17 19:42
Tetrachloro-m-xylene [2]	96.3	30-150		8/29/17 19:42

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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
17H1208-01 [WS-AOC-9-AS-30]	B184963	2.00	10.0	08/25/17
17H1208-02 [WS-AOC-9-AS-31]	B184963	2.00	10.0	08/25/17
17H1208-03 [WS-AOC-9-CO-60]	B184963	2.00	10.0	08/25/17
17H1208-04 [WS-AOC-9-CO-61]	B184963	2.00	10.0	08/25/17
17H1208-05 [WS-AOC-9-CO-62]	B184963	2.00	10.0	08/25/17
17H1208-06 [WS-AOC-9-CO-63]	B184963	2.00	10.0	08/25/17
17H1208-07 [WS-AOC-9-CO-64]	B184963	2.00	10.0	08/25/17
17H1208-08 [WS-AOC-9-AS-32]	B184963	2.00	10.0	08/25/17
17H1208-09 [WS-AOC-9-AS-34]	B184963	2.00	10.0	08/25/17
17H1208-10 [WS-AOC-9-AS-35]	B184963	2.00	10.0	08/25/17
17H1208-11 [WS-AOC-9-AS-36]	B184963	2.00	10.0	08/25/17
17H1208-12 [WS-AOC-9-AS-38]	B184963	2.00	10.0	08/25/17
17H1208-13 [WS-AOC-9-AS-39]	B184963	2.00	10.0	08/25/17
17H1208-14 [WS-AOC-9-AS-41]	B184963	2.00	10.0	08/25/17
17H1208-15 [WS-AOC-9-CO-42]	B184963	2.00	10.0	08/25/17
17H1208-16 [WS-AOC-9-CO-43]	B184963	2.00	10.0	08/25/17
17H1208-17 [WS-AOC-9-CO-DUP-15]	B184963	2.00	10.0	08/25/17
17H1208-18 [WS-AOC-9-CO-65]	B184963	2.00	10.0	08/25/17
17H1208-19 [WS-AOC-9-CO-66]	B184963	2.00	10.0	08/25/17
17H1208-20 [WS-AOC-9-CO-67]	B184963	2.00	10.0	08/25/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1208-21 [EB-47]	B184972	1000	10.0	08/25/17
17H1208-22 [EB-48]	B184972	1000	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 By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184972 - SW-846 3510C										
Blank (B184972-BLK1)				Prepared: 08/25/17 Analyzed: 08/29/17						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*2.11*		µg/L	2.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.25*		µg/L	2.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*1.93*		µg/L	2.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.93*		µg/L	2.00		96.5	30-150			
LCS (B184972-BS1)				Prepared: 08/25/17 Analyzed: 08/29/17						
Aroclor-1016	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		89.4	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		97.0	40-140			
Surrogate: Decachlorobiphenyl	*2.23*		µg/L	2.00		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.42*		µg/L	2.00		121	30-150			
Surrogate: Tetrachloro-m-xylene	*2.07*		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.10*		µg/L	2.00		105	30-150			
LCS Dup (B184972-BSD1)				Prepared: 08/25/17 Analyzed: 08/29/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		105	40-140	1.38	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		113	40-140	0.713	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.3	40-140	2.04	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140	1.61	20	
Surrogate: Decachlorobiphenyl	*2.15*		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.37*		µg/L	2.00		119	30-150			
Surrogate: Tetrachloro-m-xylene	*2.01*		µg/L	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.02*		µg/L	2.00		101	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 B184963 - SW-846 3540C										
Blank (B184963-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	*0.916*		mg/Kg	1.00		91.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.868*		mg/Kg	1.00		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.887*		mg/Kg	1.00		88.7	30-150			
LCS (B184963-BS1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1016 [2C]	0.88	0.10	mg/Kg	1.00		88.5	40-140			
Aroclor-1260	0.73	0.10	mg/Kg	1.00		73.5	40-140			
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.5	40-140			
Surrogate: Decachlorobiphenyl	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.822*		mg/Kg	1.00		82.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.870*		mg/Kg	1.00		87.0	30-150			
LCS Dup (B184963-BSD1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.89	0.10	mg/Kg	1.00		89.3	40-140	6.34	30	
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		92.0	40-140	3.89	30	
Aroclor-1260	0.78	0.10	mg/Kg	1.00		77.8	40-140	5.64	30	
Aroclor-1260 [2C]	0.84	0.10	mg/Kg	1.00		83.7	40-140	2.68	30	
Surrogate: Decachlorobiphenyl	*0.998*		mg/Kg	1.00		99.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.898*		mg/Kg	1.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.934*		mg/Kg	1.00		93.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184963 - SW-846 3540C										
Matrix Spike (B184963-MS1)		**Source: 17H1208-15**		Prepared: 08/25/17 Analyzed: 09/02/17						
Aroclor-1016	0.86	0.10	mg/Kg	1.00	ND	85.9	40-140			
Aroclor-1016 [2C]	0.94	0.10	mg/Kg	1.00	ND	94.4	40-140			
Aroclor-1260	0.79	0.10	mg/Kg	1.00	ND	79.2	40-140			
Aroclor-1260 [2C]	0.91	0.10	mg/Kg	1.00	ND	91.2	40-140			
Surrogate: Decachlorobiphenyl	*0.939*		mg/Kg	1.00		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.987*		mg/Kg	1.00		98.7	30-150			
Matrix Spike Dup (B184963-MSD1)		**Source: 17H1208-15**		Prepared: 08/25/17 Analyzed: 09/02/17						
Aroclor-1016	0.79	0.10	mg/Kg	1.00	ND	78.6	40-140	8.84	50	
Aroclor-1016 [2C]	0.79	0.10	mg/Kg	1.00	ND	78.9	40-140	17.9	50	
Aroclor-1260	0.69	0.10	mg/Kg	1.00	ND	69.5	40-140	13.1	50	
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00	ND	80.3	40-140	12.7	50	
Surrogate: Decachlorobiphenyl	*0.860*		mg/Kg	1.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.851*		mg/Kg	1.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.859*		mg/Kg	1.00		85.9	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-AS-30

Lab Sample ID: 17H1208-01 Date(s) Analyzed 09/02/2017 09/02/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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	8.1	
	2	0.000	0.000	0.000	9.2	12.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-CO-60

Lab Sample ID: 17H1208-03

Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

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	0.67	
	2	0.000	0.000	0.000	0.76	12.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B184963-BS1

Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.88	4.7
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.81	9.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B184963-BSD1 Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	0.92	3.3
Aroclor-1260	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.84	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B184963-MS1 Date(s) Analyzed 09/02/2017 09/02/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	0.94	8.9
Aroclor-1260	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.91	14.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B184963-MSD1 Date(s) Analyzed 09/02/2017 09/02/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.79	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.69	
	2	0.000	0.000	0.000	0.80	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B184972-BS1

Date(s) Analyzed 08/29/2017 08/29/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.53	
	2	0.000	0.000	0.000	0.57	7.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.48	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B184972-BSD1 Date(s) Analyzed 08/29/2017 08/29/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.56	7.4
Aroclor-1260	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.48	4.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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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 Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA

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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

17H1208

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

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

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										# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC-9-AS-30	8/22/17	1000		X	O	U	X												
2	WS-AOC-9-AS-31		1010																	
3	WS-AOC-9-CO-60		1020																	
4	WS-AOC-9-CO-61		1030																	
5	WS-AOC-9-CO-62		1040																	
6	WS-AOC-9-CO-63		1050																	
7	WS-AOC-9-CO-64		1100																	
8	WS-AOC-9-AS-32		1200																	
9	WS-AOC-9-AS-34		1210																	
10	WS-AOC-9-AS-35		1220																	

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)

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: 8/22/17 1500
Received by: (signature)	Date/Time: 8/22/17 3
Relinquished by: (signature)	Date/Time: 8/22/17 415
Received by: (signature) 3.8 8/22/17	Date/Time: 1615
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
☐ 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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