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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Pond (Berlin, CT)

Project Number: 15F0479

Laboratory Sample ID(s):

15F0479-01 thru 15F0479-02

Sample Date(s):

05/14/2015

List RCP Methods Used:

SW-846 8082A

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

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

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

Authorized Signature:  **Position:** **Manager, Laboratory Reporting**

Printed Name: **Johanna K. Harrington** **Date:** **06/17/15**

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

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

July 8, 2015

Laura Yellen
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: Berlin, CT
Client Job Number:
Project Number: 2150401
Laboratory Work Order Number: 15F1510

Enclosed are results of analyses for samples received by the laboratory on June 30, 2015. 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: Laura Yellen

REPORT DATE: 7/8/2015

PURCHASE ORDER NUMBER: Weston & Sampson

PROJECT NUMBER: 2150401

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15F1510

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

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B187-1	15F1510-01	Soil		SM 2540G	
				SW-846 8082A	
B187-2	15F1510-02	Soil		SM 2540G	
				SW-846 8082A	
B187-3	15F1510-03	Soil		SM 2540G	
				SW-846 8082A	
WIPE-201	15F1510-04	Wipe		SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

MS-19

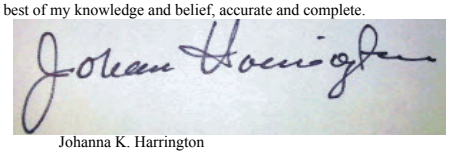
Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B125354-MS1, B125354-MSD1

Aroclor-1260 [2C]
B125354-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.



Johanna K. Harrington
Manager, Laboratory Reporting

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

Project Location: Berlin, CT | Sample Description: | Work Order: 15F1510

Date Received: 6/30/2015

Field Sample #: B187-1 | Sampled: 6/30/2015 09:00

Sample ID: 15F1510-01

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	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1221 [2]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1232 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1242 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1248 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1254 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1260 [2]	2.1	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1262 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL
Aroclor-1268 [1]	ND	0.27	mg/Kg dry	10		SW-846 8082A	7/1/15	7/7/15 11:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	110	30-150				7/7/15 11:55	
Decachlorobiphenyl [2]	107	30-150				7/7/15 11:55	
Tetrachloro-m-xylene [1]	103	30-150				7/7/15 11:55	
Tetrachloro-m-xylene [2]	100	30-150				7/7/15 11:55	

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

Project Location: Berlin, CT
Sample Description:
Work Order: 15F1510
Date Received: 6/30/2015
Field Sample #: B187-1
Sampled: 6/30/2015 09:00
Sample ID: 15F1510-01
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	70.7		% Wt	1		SM 2540G	7/1/15	7/2/15 11:19	DRA

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

Project Location: Berlin, CT | Sample Description: | Work Order: 15F1510

Date Received: 6/30/2015

Field Sample #: B187-2 | Sampled: 6/30/2015 09:05

Sample ID: 15F1510-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1260 [2]	0.12	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	88.3	30-150				7/6/15 19:11	
Decachlorobiphenyl [2]	91.6	30-150				7/6/15 19:11	
Tetrachloro-m-xylene [1]	93.0	30-150				7/6/15 19:11	
Tetrachloro-m-xylene [2]	95.1	30-150				7/6/15 19:11	

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Project Location: Berlin, CT
Sample Description:
Work Order: 15F1510
Date Received: 6/30/2015
Field Sample #: B187-2
Sampled: 6/30/2015 09:05
Sample ID: 15F1510-02
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	84.6		% Wt	1		SM 2540G	7/1/15	7/2/15 11:19	DRA

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Project Location: Berlin, CT | Sample Description: | Work Order: 15F1510

Date Received: 6/30/2015

Field Sample #: B187-3 | Sampled: 6/30/2015 09:10

Sample ID: 15F1510-03

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	7/1/15	7/6/15 19:24	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/1/15	7/6/15 19:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.5	30-150		7/6/15 19:24
Decachlorobiphenyl [2]	99.6	30-150		7/6/15 19:24
Tetrachloro-m-xylene [1]	98.4	30-150		7/6/15 19:24
Tetrachloro-m-xylene [2]	99.6	30-150		7/6/15 19:24

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Project Location: Berlin, CT
Sample Description:
Work Order: 15F1510
Date Received: 6/30/2015
Field Sample #: B187-3
Sampled: 6/30/2015 09:10
Sample ID: 15F1510-03
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	86.6		% Wt	1		SM 2540G	7/1/15	7/2/15 11:19	DRA

con-test® ANALYTICAL LABORATORY
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Project Location: Berlin, CT | Sample Description: | Work Order: 15F1510

Date Received: 6/30/2015

Field Sample #: WIPE-201 | Sampled: 6/30/2015 15:00

Sample ID: 15F1510-04

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/6/15	7/7/15 18:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		7/7/15 18:10
Decachlorobiphenyl [2]	88.3	30-150		7/7/15 18:10
Tetrachloro-m-xylene [1]	77.5	30-150		7/7/15 18:10
Tetrachloro-m-xylene [2]	92.4	30-150		7/7/15 18:10

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15F1510-01 [B187-1]	B125360	07/01/15
15F1510-02 [B187-2]	B125360	07/01/15
15F1510-03 [B187-3]	B125360	07/01/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15F1510-01 [B187-1]	B125354	10.3	10.0	07/01/15
15F1510-02 [B187-2]	B125354	10.2	10.0	07/01/15
15F1510-03 [B187-3]	B125354	10.3	10.0	07/01/15

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

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
15F1510-04 [WIPE-201]	B125552	1.00	10.0	07/06/15

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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 B125354 - SW-846 3540C										
Blank (B125354-BLK1)				Prepared: 07/01/15 Analyzed: 07/06/15						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.198		89.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg wet	0.198		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.198		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.198		98.5	30-150			
LCS (B125354-BS1)				Prepared: 07/01/15 Analyzed: 07/06/15						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.198		84.9	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.198		88.7	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.198		86.6	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.198		91.1	40-140			
Surrogate: Decachlorobiphenyl	*0.157*		mg/Kg wet	0.198		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.198		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.198		79.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.198		89.4	30-150			
LCS Dup (B125354-BSD1)				Prepared: 07/01/15 Analyzed: 07/06/15						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.196		95.3	40-140	10.6	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.196		101	40-140	11.6	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.196		97.0	40-140	10.3	30	
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.196		103	40-140	11.3	30	
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.196		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.196		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.196		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.196		101	30-150			

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B125354 - SW-846 3540C											
Matrix Spike (B125354-MS1)	**Source: 15F1510-01**			Prepared: 07/01/15 Analyzed: 07/06/15							
Aroclor-1016	0.33	0.14	mg/Kg dry	0.272	ND	122		40-140			
Aroclor-1016 [2C]	0.32	0.14	mg/Kg dry	0.272	ND	119		40-140			
Aroclor-1260	1.7	0.14	mg/Kg dry	0.272	1.9	**-55.3**	*	40-140			MS-19
Aroclor-1260 [2C]	2.0	0.14	mg/Kg dry	0.272	2.1	**-28.3**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.255*		mg/Kg dry	0.272		93.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.260*		mg/Kg dry	0.272		95.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.253*		mg/Kg dry	0.272		93.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.259*		mg/Kg dry	0.272		95.2		30-150			
Matrix Spike Dup (B125354-MSD1)	**Source: 15F1510-01**			Prepared: 07/01/15 Analyzed: 07/06/15							
Aroclor-1016	0.33	0.14	mg/Kg dry	0.275	ND	121		40-140	0.0980	50	
Aroclor-1016 [2C]	0.34	0.14	mg/Kg dry	0.275	ND	126		40-140	6.08	50	
Aroclor-1260	2.0	0.14	mg/Kg dry	0.275	1.9	**20.7**	*	40-140	11.2	50	MS-19
Aroclor-1260 [2C]	2.2	0.14	mg/Kg dry	0.275	2.1	65.0		40-140	12.2	50	
Surrogate: Decachlorobiphenyl	*0.278*		mg/Kg dry	0.275		101		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.285*		mg/Kg dry	0.275		104		30-150			
Surrogate: Tetrachloro-m-xylene	*0.270*		mg/Kg dry	0.275		98.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.279*		mg/Kg dry	0.275		102		30-150			
Batch B125552 - SW-846 3540C											
Blank (B125552-BLK1)				Prepared: 07/06/15 Analyzed: 07/07/15							
Aroclor-1016	ND	0.20	µg/Wipe								
Aroclor-1016 [2C]	ND	0.20	µg/Wipe								
Aroclor-1221	ND	0.20	µg/Wipe								
Aroclor-1221 [2C]	ND	0.20	µg/Wipe								
Aroclor-1232	ND	0.20	µg/Wipe								
Aroclor-1232 [2C]	ND	0.20	µg/Wipe								
Aroclor-1242	ND	0.20	µg/Wipe								
Aroclor-1242 [2C]	ND	0.20	µg/Wipe								
Aroclor-1248	ND	0.20	µg/Wipe								
Aroclor-1248 [2C]	ND	0.20	µg/Wipe								
Aroclor-1254	ND	0.20	µg/Wipe								
Aroclor-1254 [2C]	ND	0.20	µg/Wipe								
Aroclor-1260	ND	0.20	µg/Wipe								
Aroclor-1260 [2C]	ND	0.20	µg/Wipe								
Aroclor-1262	ND	0.20	µg/Wipe								
Aroclor-1262 [2C]	ND	0.20	µg/Wipe								
Aroclor-1268	ND	0.20	µg/Wipe								
Aroclor-1268 [2C]	ND	0.20	µg/Wipe								
Surrogate: Decachlorobiphenyl	*1.87*		µg/Wipe	2.00		93.6		30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.11*		µg/Wipe	2.00		106		30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/Wipe	2.00		85.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/Wipe	2.00		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 B125552 - SW-846 3540C										
LCS (B125552-BS1)				Prepared: 07/06/15 Analyzed: 07/07/15						
Aroclor-1016	0.52	0.20	µg/Wipe	0.500		103	40-140			
Aroclor-1016 [2C]	0.51	0.20	µg/Wipe	0.500		101	40-140			
Aroclor-1260	0.49	0.20	µg/Wipe	0.500		98.6	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/Wipe	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	*1.73*		µg/Wipe	2.00		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.99*		µg/Wipe	2.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/Wipe	2.00		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.93*		µg/Wipe	2.00		96.7	30-150			
LCS Dup (B125552-BSD1)				Prepared: 07/06/15 Analyzed: 07/07/15						
Aroclor-1016	0.50	0.20	µg/Wipe	0.500		101	40-140	2.12	30	
Aroclor-1016 [2C]	0.51	0.20	µg/Wipe	0.500		102	40-140	1.33	30	
Aroclor-1260	0.48	0.20	µg/Wipe	0.500		95.9	40-140	2.69	30	
Aroclor-1260 [2C]	0.51	0.20	µg/Wipe	0.500		102	40-140	0.172	30	
Surrogate: Decachlorobiphenyl	*1.74*		µg/Wipe	2.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.98*		µg/Wipe	2.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.64*		µg/Wipe	2.00		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.98*		µg/Wipe	2.00		98.8	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 B125360 - % Solids										
Duplicate (B125360-DUP3)	**Source: 15F1510-01**			Prepared: 07/01/15 Analyzed: 07/02/15						
% Solids	73.4		% Wt		70.7			3.75	20	
Duplicate (B125360-DUP4)	**Source: 15F1510-02**			Prepared: 07/01/15 Analyzed: 07/02/15						
% Solids	83.9		% Wt		84.6			0.831	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B187-1

Lab Sample ID: 15F1510-01 Date(s) Analyzed: 07/07/2015 07/07/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	-0.03	0.03	1.9	
	2	0.00	-0.03	0.03	2.1	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B125354-BS1 Date(s) Analyzed: 07/06/2015 07/06/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	7
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B125354-BSD1 Date(s) Analyzed: 07/06/2015 07/06/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.20	7
Aroclor-1260	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.20	5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B125354-MS1 Date(s) Analyzed: 07/06/2015 07/06/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.33	
	2	0.00	-0.03	0.03	0.32	3
Aroclor-1260	1	0.00	-0.03	0.03	1.7	
	2	0.00	-0.03	0.03	2.0	13

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B125354-MSD1 Date(s) Analyzed: 07/06/2015 07/06/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.33	
	2	0.00	-0.03	0.03	0.34	2
Aroclor-1260	1	0.00	-0.03	0.03	2.0	
	2	0.00	-0.03	0.03	2.2	12

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B125552-BS1 Date(s) Analyzed: 07/07/2015 07/07/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.52	
	2	0.00	0.00	0.00	0.51	1
Aroclor-1260	1	0.00	0.00	0.00	0.49	
	2	0.00	0.00	0.00	0.51	3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B125552-BSD1 Date(s) Analyzed: 07/07/2015 07/07/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.50	
	2	0.00	0.00	0.00	0.51	1
Aroclor-1260	1	0.00	0.00	0.00	0.48	
	2	0.00	0.00	0.00	0.51	6

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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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,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

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Email: info@contestlabs.com

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CHAIN OF CUSTODY RECORD 15F1510

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson - CT Office
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	(860) 513-1473
Project Name:	Berlin Settling Pond
Project Location:	Berlin, CT
Project Number:	2150401
Project Manager:	KEN GENDRON
Con-Test Bid:	Eversource Rates
Invoice Recipient:	KEN GENDRON
Sampled By:	WJS

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: 5-Day (X)

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: gendronk@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 (8082)	Soxhlet Extr. (3540c)	Hold Samples	# of Containers
01	B187-1	6/30/2015	0900		X	S	U	✓	✓		
02	B187-2		0905			S		✓	✓		
03	B187-3		0910			S		✓	✓		
	B187-4		0915			S			✓	✓	
	B187-5		0920			S			✓	✓	
04	WIPE-201	↓	1500		↓	O	↓	✓	✓		

[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) WIPE

[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)

Wipe Sample Taken From 60 square cm. area.

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: 6/30/15	
Received by: (signature)	Date/Time: 6/30/15 3PM	
Relinquished by: (signature)	Date/Time: 6/30/15	
Received by: (signature)	Date/Time: 6/30/15 16:25	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT: CTDEEP RSRs (includes RES DEC, I/C DEC & GA PMC)
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Weston & Sampson RECEIVED BY: KB DATE: 6/30/15

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included

2) **Does the chain agree with the samples?** (Yes) No

If not, explain:

3) **Are all the samples in good condition?** (Yes) No

If not, explain:

4) **How were the samples received:**

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.0°

5) **Are there Dissolved samples for the lab to filter?** Yes (No)

Who was notified _____ Date _____ Time _____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)

Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** /

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____

9) **Do all samples have the proper Base pH:** Yes No (N/A) _____

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	5, 1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KB **Date/Time:** 6/30/15 16:25

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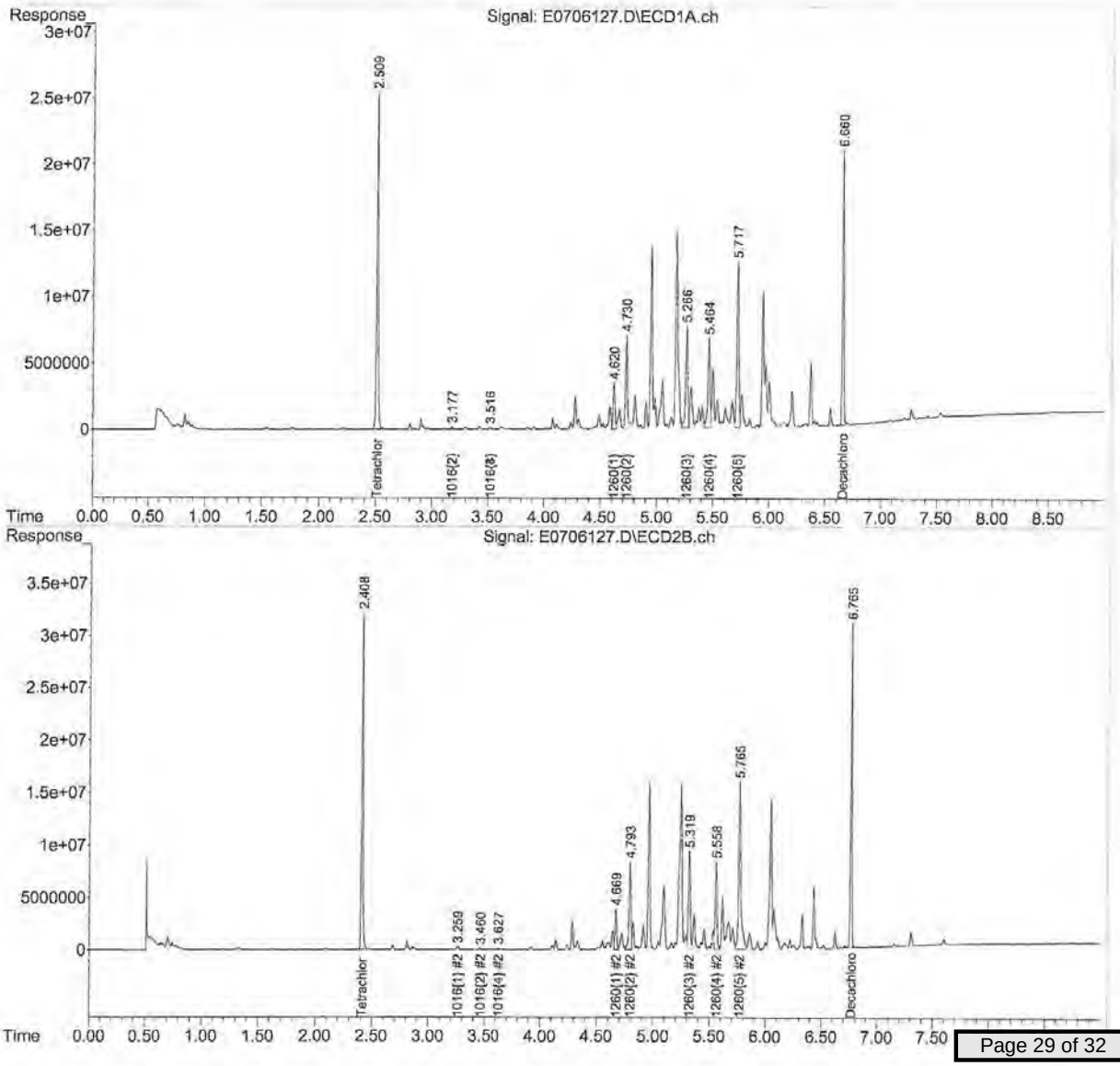
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\070615\
Data File : E0706127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jul 2015 11:55 am
Operator : JMB
Sample : 15F1510-01@10X Inst : ECD 5
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Jul 07 13:00:01 2015
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-062915c.M
Quant Title : 1260/1016 06/29/15 05/06/15 ICAL 1500196
QLast Update : Tue Jun 30 08:43:58 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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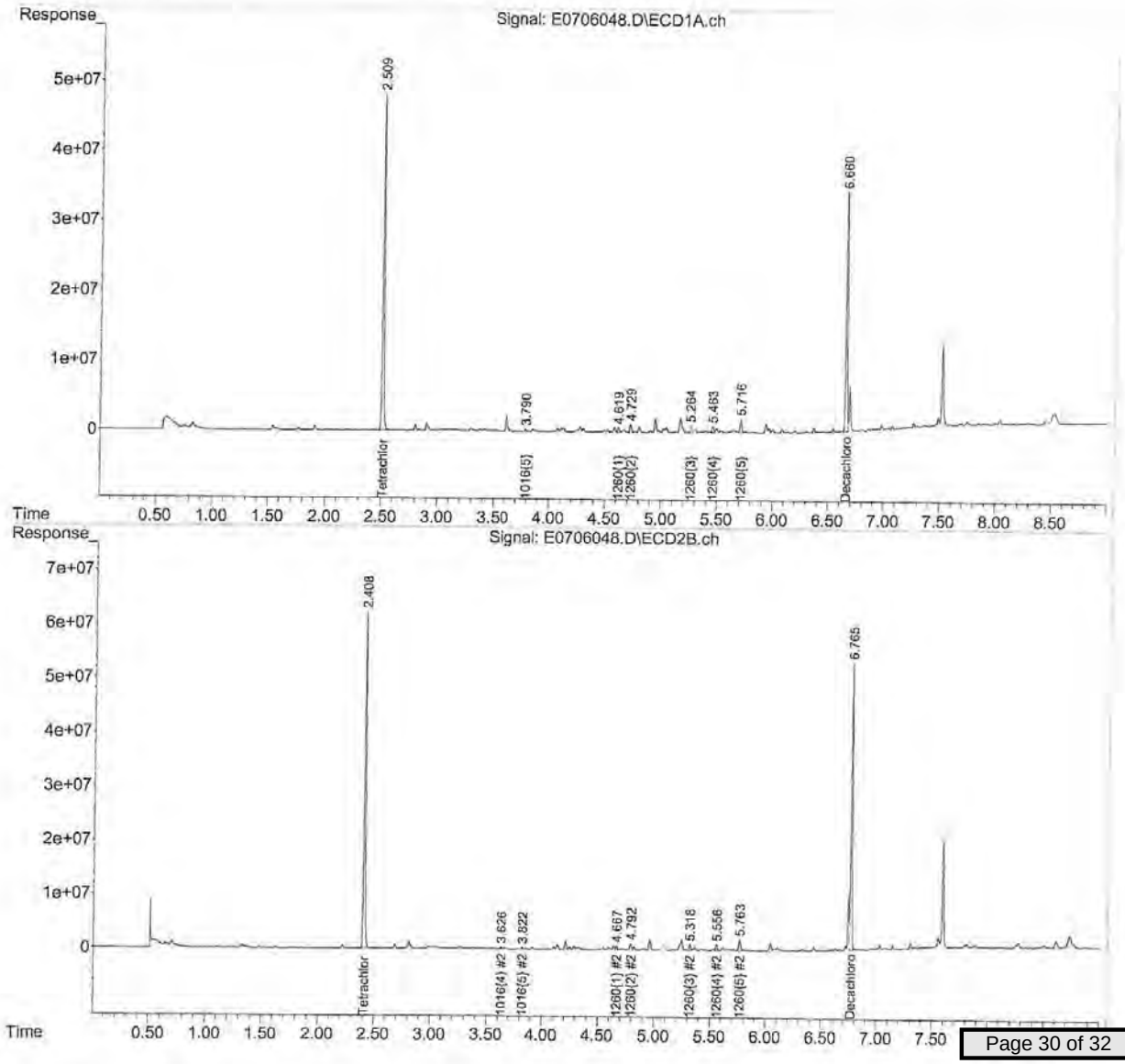
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\070615\
Data File : E0706048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jul 2015 7:11 pm
Operator : JMB
Sample : 15F1510-02@5X Inst : ECD 5
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Jul 07 05:18:28 2015
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-062915c.M
Quant Title : 1260/1016 06/29/15 05/06/15 ICAL 1500196
QLast Update : Tue Jun 30 08:43:58 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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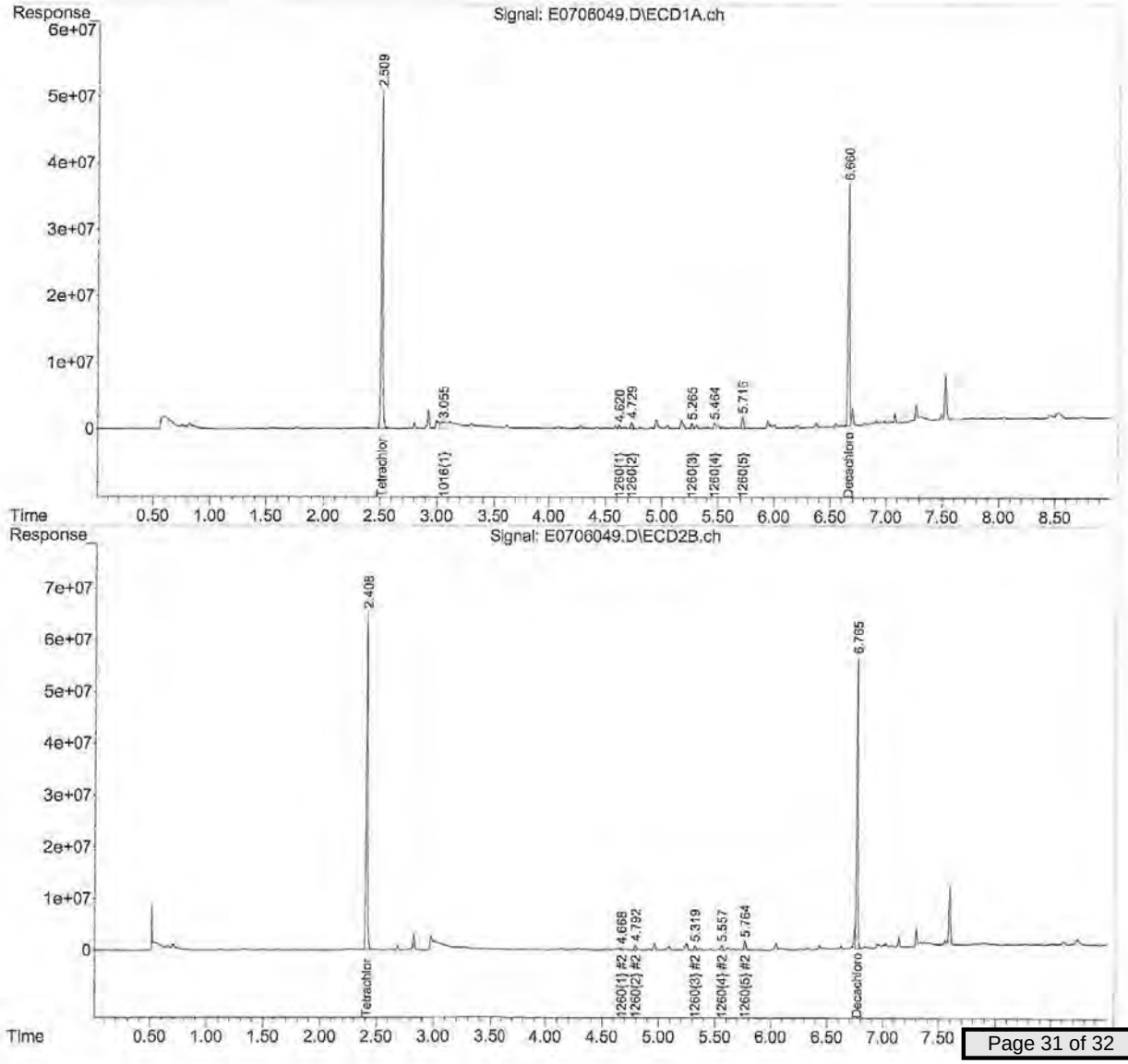
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\070615\
Data File : E0706049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jul 2015 7:24 pm
Operator : JMB
Sample : 15F1510-03@5X Inst : ECD 5
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Jul 07 05:18:33 2015
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-062915c.M
Quant Title : 1260/1016 06/29/15 05/06/15 ICAL 1500196
QLast Update : Tue Jun 30 08:43:58 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: Berlin, CT

Project Number: 15F1510

Laboratory Sample ID(s):

15F1510-01 thru 15F1510-04

Sample Date(s):

06/30/2015

List RCP Methods Used:

SW-846 8082A

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

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

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

Authorized Signature:  **Position:** **Manager, Laboratory Reporting**

Printed Name: **Johanna K. Harrington** **Date:** **07/08/15**

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

July 17, 2015

Chris Soroka
Northeast Utilities
P.O. Box 270
Hartford, CT 06141

Project Location: Berlin Settling Pond
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15G0488

Enclosed are results of analyses for samples received by the laboratory on July 10, 2015. 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

Northeast Utilities
P.O. Box 270
Hartford, CT 06141
ATTN: Chris Soroka

REPORT DATE: 7/17/2015

PURCHASE ORDER NUMBER: 02274021 Release 5

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15G0488

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

PROJECT LOCATION: Berlin Settling Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	15G0488-01	Ground Water		SW-846 8082A	
MW-2	15G0488-02	Ground Water		SW-846 8082A	
MW-3	15G0488-03	Ground Water		SW-846 8082A	
MW-5	15G0488-04	Ground Water		SW-846 8082A	
MW-6	15G0488-05	Ground Water		SW-846 8082A	
DUP-MW	15G0488-06	Ground Water		SW-846 8082A	

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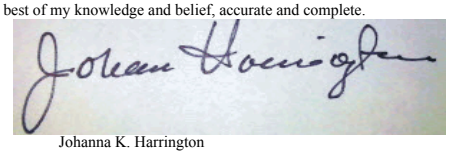
con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

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

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.



Johanna K. Harrington
Manager, Laboratory Reporting

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-1 | Sampled: 7/9/2015 10:40

Sample ID: 15G0488-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.3	30-150		7/16/15 14:30
Decachlorobiphenyl [2]	68.2	30-150		7/16/15 14:30
Tetrachloro-m-xylene [1]	72.2	30-150		7/16/15 14:30
Tetrachloro-m-xylene [2]	73.9	30-150		7/16/15 14:30

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-2 | Sampled: 7/9/2015 09:30

Sample ID: 15G0488-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:43	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.1	30-150		7/16/15 14:43
Decachlorobiphenyl [2]	72.2	30-150		7/16/15 14:43
Tetrachloro-m-xylene [1]	69.4	30-150		7/16/15 14:43
Tetrachloro-m-xylene [2]	70.5	30-150		7/16/15 14:43

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-3 | Sampled: 7/9/2015 11:40

Sample ID: 15G0488-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/16/15 14:56	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.0	30-150		7/16/15 14:56
Decachlorobiphenyl [2]	42.0	30-150		7/16/15 14:56
Tetrachloro-m-xylene [1]	47.2	30-150		7/16/15 14:56
Tetrachloro-m-xylene [2]	48.6	30-150		7/16/15 14:56

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-5 | Sampled: 7/9/2015 08:40

Sample ID: 15G0488-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:45	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	78.7	30-150		7/17/15	9:45
Decachlorobiphenyl [2]	78.1	30-150		7/17/15	9:45
Tetrachloro-m-xylene [1]	73.3	30-150		7/17/15	9:45
Tetrachloro-m-xylene [2]	74.5	30-150		7/17/15	9:45

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: MW-6 | Sampled: 7/9/2015 12:50

Sample ID: 15G0488-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 9:57	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	68.4	30-150				7/17/15	9:57
Decachlorobiphenyl [2]	68.0	30-150				7/17/15	9:57
Tetrachloro-m-xylene [1]	65.3	30-150				7/17/15	9:57
Tetrachloro-m-xylene [2]	66.8	30-150				7/17/15	9:57

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

Project Location: Berlin Settling Pond | Sample Description: | Work Order: 15G0488

Date Received: 7/10/2015

Field Sample #: DUP-MW | Sampled: 7/9/2015 00:00

Sample ID: 15G0488-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	7/14/15	7/17/15 10:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		7/17/15 10:10
Decachlorobiphenyl [2]	69.5	30-150		7/17/15 10:10
Tetrachloro-m-xylene [1]	66.4	30-150		7/17/15 10:10
Tetrachloro-m-xylene [2]	67.4	30-150		7/17/15 10:10

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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 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15G0488-01 [MW-1]	B126220	1000	10.0	07/14/15
15G0488-02 [MW-2]	B126220	1000	10.0	07/14/15
15G0488-03 [MW-3]	B126220	1000	10.0	07/14/15
15G0488-04 [MW-5]	B126220	1000	10.0	07/14/15
15G0488-05 [MW-6]	B126220	1000	10.0	07/14/15
15G0488-06 [DUP-MW]	B126220	1000	10.0	07/14/15

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con-test® ANALYTICAL LABORATORY
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 B126220 - SW-846 3510C										
Blank (B126220-BLK1)				Prepared: 07/14/15 Analyzed: 07/16/15						
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	*1.09*		µg/L	2.00		54.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		µg/L	2.00		54.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		µg/L	2.00		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.22*		µg/L	2.00		61.1	30-150			
LCS (B126220-BS1)				Prepared: 07/14/15 Analyzed: 07/16/15						
Aroclor-1016	0.41	0.20	µg/L	0.500		82.5	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		82.0	40-140			
Aroclor-1260	0.39	0.20	µg/L	0.500		78.4	40-140			
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		78.2	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		µg/L	2.00		51.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		µg/L	2.00		50.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.33*		µg/L	2.00		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.34*		µg/L	2.00		67.1	30-150			
LCS Dup (B126220-BSD1)				Prepared: 07/14/15 Analyzed: 07/16/15						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.1	40-140	15.3	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.2	40-140	14.8	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.8	40-140	15.9	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.9	40-140	15.1	20	
Surrogate: Decachlorobiphenyl	*1.33*		µg/L	2.00		66.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.31*		µg/L	2.00		65.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.38*		µg/L	2.00		68.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.40*		µg/L	2.00		69.9	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B126220-BS1 Date(s) Analyzed: 07/16/2015 07/16/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.41	
	2	0.00	0.00	0.00	0.41	0
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.39	1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B126220-BSD1 Date(s) Analyzed: 07/16/2015 07/16/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.48	
	2	0.00	0.00	0.00	0.48	0
Aroclor-1260	1	0.00	0.00	0.00	0.46	
	2	0.00	0.00	0.00	0.45	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

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 Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

Red (left w/ ice sun)

con-test ANALYTICAL LABORATORY

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

15G0488

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson - CT Office
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	(860) 513-1473
Project Name:	Berlin Settling Pond
Project Location:	Berlin, CT
Project Number:	2110618
Project Manager:	KEN GENDRON
Con-Test Bid:	Eversource Rates
Invoice Recipient:	KEN GENDRON
Sampled By:	Will SIATNAK

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: 5-Day (X)

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: gendronk@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 (8082)	# of Containers	[2] Preservation Code	[3] Container Code
01	MW-1	7-9-15	1040		X	GW	U	✓			
02	MW-2		0930					✓			
03	MW-3		1140					✓			
04	MW-5		0840					✓			
05	MW-6		1250					✓			
06	DUP-MW		—					✓			

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time: 7/10/15	
Received by: (signature)	Date/Time: 7/10/15 16:29	
Relinquished by: (signature)	Date/Time: 7/10/15 1700	
Received by: (signature)	Date/Time: 7/10/15 1900	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT — CTDEEP RSRs (includes RES DEC, I/C DEC & GA PMC)
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



Sample Receipt Checklist

CLIENT NAME: Weston + Sampson **RECEIVED BY:** JDL **DATE:** 7/10/25

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included
2) **Does the chain agree with the samples?** (Yes) No
If not, explain:
3) **Are all the samples in good condition?** (Yes) No
If not, explain:
4) **How were the samples received:**
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A
Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4
5) **Are there Dissolved samples for the lab to filter?** Yes (No)
Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	12	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____ **Time and Date Frozen:**
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JDL **Date/Time:** 7/10/15 1900

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Northeast Utilities

Project Location: Berlin Settling Pond

Project Number: 15G0488

Laboratory Sample ID(s):

15G0488-01 thru 15G0488-06

Sample Date(s):

07/09/2015

List RCP Methods Used:

SW-846 8082A

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

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

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

Authorized Signature:  **Position:** **Manager, Laboratory Reporting**

Printed Name: **Johanna K. Harrington** **Date:** **07/17/15**

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

APPENDIX C

Certifications

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street
Berlin, Connecticut 06037

September 30, 2015

Christopher A. Soroka
Senior Environmental Specialist
Eversource Energy
107 Selden Street
Berlin, CT 06037
Phone: 860.665.5493

I, Christopher A. Soroka, Senior Environmental Specialist of Eversource Energy, certify that I have read and understand the specification requirements for remediation of Eversource's Berlin Campus Storm Water Settling Basin. To the best of my knowledge, all sampling plans, sample collection procedures, extraction procedures and chemical analysis procedures used to characterize PCB impacts at Berlin Campus Storm Water Settling Basin are on file (either hard copy or electronic version) at Eversource's Berlin Campus and are available for EPA inspection.



_____

Christopher A. Soroka

con-test®
ANALYTICAL LABORATORY
39 Spruce Street East Longmeadow, MA 01028 TEL. 413.525.2332 FAX 413.525.6405

September 25, 2015

Tod Kopyscinski
Laboratory Director
Con-test Analytical Laboratory
39 Spruce Street, East Longmeadow, MA 01028
Phone: 413-525-2332
Fax: 413-525-6405

I, Tod Kopyscinski, Laboratory Director of Con-test Analytical Laboratory, certify that I have read and understand the Notification, EPA Approval, specification requirements related to laboratory analyses for remediation of Eversource's Berlin Campus Storm Water Settling Basin, the extraction and analytical method requirements, and the quality assurance requirements and agree to abide by the conditions established therein. In the case of a conflict, the conditions established in the EPA Approval will govern.

Tod Kopyscinski

Tod Kopyscinski

APPENDIX C

BERLIN SETTLING BASE PHASE III INVESTIGATION, JULY 2018

Weston & Sampson SM

westonandsampson.com

273 Dividend Road
Rocky Hill, CT 06067
tel: 860.513.1473

REPORT

July 2018

Eversource Energy

Berlin Settling Basin Phase III Investigation



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EXECUTIVE SUMMARY

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Eversource Energy (Eversource), performed additional investigation at the Eversource Berlin Campus Settling Basin located at 107 Selden Street Berlin, Connecticut (the Site). This investigation program was performed at the request of the Connecticut Department of Energy and Environmental Protection (CT DEEP). A Locus Map and a Site plan are provided as Figures 1 and 2.

The scope of work for the additional investigation was developed based on previous sampling data that found concentrations of polychlorinated biphenyls (PCBs) within the settling basin and surrounding area at concentrations exceeding applicable federal and state remedial criteria. The work for this investigation was requested to further delineate the presence of PCBs within the basin and surrounding area, to characterize other chemicals of concern (COCs) within the area, and to sample groundwater for PCBs and other COCs. Provided below are conclusions drawn from the findings of the investigation work completed at the Site:

- Soil samples were collected and analyzed for PCBs, volatile organic chemicals (VOCs), semivolatile organic chemicals (SVOCs), extractable total petroleum hydrocarbons (ETPH), and metals.
- The extent of PCB impacts within the area has been delineated to a concentration of less than one milligram per kilogram (<1 mg/kg).
- VOCs were not detected in any of the samples collected and are not considered to be a COC. ETPH, polyaromatic hydrocarbons (PAHs), and the metals barium and beryllium were detected at concentrations that exceed applicable remedial criteria and are COCs in soil.
- Groundwater samples were collected and analyzed for PCBs, VOCs, SVOCs, ETPH, and metals from monitoring wells previously installed within the investigation area.
- VOCs, SVOCs, and PCBs were not detected in groundwater. ETPH was detected and is considered to be a COC in groundwater as well as the metals barium, silver and zinc which exceeded applicable remedial criteria.
- The Conceptual Site Model for impacts found within the area of the settling basin is as follows:
    - The area was filled and then used as a pole-training area for Eversource personnel. The fill material is believed to be the source of metals and most of the PCBs and ETPH found at depth within the area. Training area operations may have also been a source of ETPH and PCB impacts as well as the PAHs found in the area as treated wood, probably from poles, were identified in certain soil borings.
    - The area was then developed as a settling basin that excepted stormwater from an asphalt parking lot where PCB-containing materials were stored. Stormwater runoff from the asphalt is a potential source of surficial PCBs, ETPH, PAHs, and metals in soil.

Remedial alternatives were reviewed for the settling basin area. The selected remedial alternative is to excavate and dispose soil containing PCBs at concentrations greater than 10 mg/kg. Removal of these soils will also remove soil serving as a source of ETPH and metals to groundwater. Remaining soil impacted with PCBs <10 mg/kg will be placed in excavations above the groundwater table and capped with four feet of clean backfill. Stormwater will be routed through a system that will remove sediments and equalize flow and the settling basin will be filled to match the grades of the surrounding area.

1.0 INTRODUCTION

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Eversource Energy (Eversource) has completed additional investigation within the Eversource Berlin Campus Settling Basin located at 107 Selden Street Berlin, Connecticut (the Site). Eversource is currently negotiating a Consent Order with the Connecticut Department of Energy and Environmental Protection (CT DEEP) for this Site and others. CT DEEP requested that Eversource perform additional investigation at the Site. The work done for this additional investigation was designed to delineate polychlorinated biphenyls (PCBs) to a concentration less than one milligram per kilogram (<1 mg/kg) in soil and to characterize soil and groundwater at the Site for other chemicals of concern (COCs) that were not tested for previously.

1.1 Site Background

The approximately 8,000 square-foot stormwater settling basin Site is located southeast of the parking garage on Eversource's Berlin Campus (Figures 1 and 2). The settling basin is no longer in use and areas have been fenced because of a Significant Environmental Hazards involving PCBs in shallow soil.

The Site was filled and utilized as a pole-training area that may have used PCB oil-containing equipment. Surficial soils within this area may have been impacted with PCBs due to use or storage of PCB containing equipment. However, given that the highest concentrations of PCBs are typically found beneath the surface and that the concentrations are inconsistent within the soil column, the primary source for PCB and other COC impacts is believed to be from the fill materials used during regrading of this area. Placing and compacting the fill could produce the "lack of pattern" in the distribution of PCB impacts observed.

The Site was subsequently regraded to form the settling basin and drainage pipes were installed from the asphalt-covered area located to the west of the basin. This area was used to store PCB-containing equipment and other materials. Stormwater runoff from this area is potentially a source of surficial PCB and metals impacts found within the settling basin.

1.2 Previous Investigations

Weston & Sampson has performed a series of investigations at the Site to characterize and delineate PCB impacts to soil and groundwater. A remedial action plan was prepared and submitted to CT DEEP and the United States Environmental Protection Agency (EPA) Region 1 PCB Coordinator in September 2015. CT DEEP issued Eversource a draft Consent Order that included the Site and other items following the submission of remedial plan and that Consent Order is still being negotiated.

1.3 Purpose

In December 2017, CT DEEP requested that Eversource perform additional investigation at the Site. An investigation work plan was prepared to perform that investigation and the goals of the investigation were to:

- Complete the delineation of PCBs in soil at the site to a concentration of less than one milligram per kilogram (<1 mg/kg); and
- Characterize soil and groundwater at the site for chemicals of concern other than PCBs.

2.0 SITE DESCRIPTION AND SETTING

The following sections provide a brief description of the Site and Site setting, including surrounding land use, regional bedrock and surficial geology, and groundwater and surface water classifications.

2.1 Site Location

The Site is an approximately 8,000 square-foot settling basin located on Eversource's Berlin Campus at 107 Selden Street in Berlin, Connecticut. To the west is an asphalt-paved area used for equipment storage and laydown. PCB-containing materials were previously stored within this paved area. Further to the west is a parking garage. To the north are additional parking lots and wetlands. Immediate to the west is an unnamed stream. Stormwater runoff that discharged into the settling basin were eventually discharged to this stream. The unnamed stream flows to the south of the settling basin and the surround areas are mostly undeveloped.

The Site is currently vacant and contains structures and piping associated with the drainage basin. However, stormwater discharge to the settling basin has been terminated. The location of the previous settling basin and portions of the surrounding areas have been fenced because of Significant Environmental Hazards involving PCBs in shallow soil.

2.2 Site Surficial Geology

Soil at the Site consists of reddish-dark brown silt with fine reddish-dark brown sand in the upper five feet in the area surrounding the settling basin. Subsurface soil consists of reddish-dark brown silt with fine to coarse reddish-dark brown sand. Subsurface soil in the settling basin consists mostly of dark brown-reddish silt with dark brown-reddish sand transitioning from fine to coarse as depth increases. Traces of clay and gravel were present throughout the site from five to ten feet. Wood debris was encountered in certain borings and the wood appeared to have been treated.

It is believed that much of the soil in the area of the settling basin was imported as fill prior to development of the area as a training area. The area was subsequently regraded for construction of the settling basin and drainage pipes were installed. Thus, much of the soil in the area of the settling basin is fill that has been subsequently disturbed.

2.3 Groundwater and Surface Water Classification

The CT DEEP has classified the overburden groundwater aquifer that flows beneath the Site as a GA groundwater classification area. A GA groundwater classification means that groundwater is presumed to be suitable for drinking without treatment. An unnamed stream located approximately 70 feet (ft) southwest of the outlet from the settling basin is the closest body of water to the site. Prior to discontinuing the use of the Settling Basin, storm overflows from the settling basin drained through an underground 36-inch reinforced concrete pipe and then discharged to the unnamed stream.

3.0 INVESTIGATION ACTIVITIES

The following sections describe Weston & Sampson's data collection methodologies for each respective site activity completed during the additional investigation work.

3.1 Soil Investigation

Weston & Sampson oversaw the advancement of a total of forty-four soil borings at the Site between January and March 2018. Soil borings were advanced to a maximum depth of fifteen (15) feet below ground surface (ft bgs). Soil boring logs from this investigation are provided in Appendix A.

Prior to soil boring activities, Weston & Sampson personnel marked each proposed boring location and coordinated with the drilling subcontractor to notify Call Before You Dig (CBYD). Weston & Sampson also secured the services of a private utility locator to clear boring locations with ground-penetrating radar (GPR) and other methods.

Direct-push drilling techniques were used to complete all soil borings expect for B-231 where a hand auger was used. Continuous soil recovery was observed by Weston & Sampson personnel for visual or olfactory evidence of contamination, screened for the presence of volatile organic chemicals (VOCs) with a photoionization detector (PID), and logged using the modified Burmeister system.

Soil sampling included multi-depth sampling at all locations. A summary of the submitted analysis per borings is shown in the Table 1 below. Samples were collected and analyzed for:

- Total PCBs by EPA Methods 3540/8082;
- Volatile Organic Chemicals by EPA Method 8260;
- Extractable Total Petroleum Hydrocarbons (ETPH) by the CT DEEP method;
- Semivolatile Organic Chemicals (SVOCs) and Polyaromatic Hydrocarbons (PAHs) only by EPA Method 8270; and
- Metals by EPA Methods 6010 and 7471.

Analyte lists were those listed in the EPA methods except for metals. For metals, the analyte list was the fifteen metals listed in Section 22a 133k-1 through -3, inclusive, of the Regulations of Connecticut State Agencies (RCSA), Remediation Standard Regulations (RSRs).

The samples were placed directly into new laboratory-prepared sample containers and stored on ice and shipped under proper chain-of custody protocols to Con-Test Laboratory (Con-Test), a CT Department of Public Health (DPH) certified laboratory, in East Longmeadow, Massachusetts for chemical analysis.

Laboratory analysis was performed and reported in accordance with the CT DEEP Reasonable Confidence Protocols (RCP). Quality Assurance/Quality Control (QA/QC) samples were collected and analyzed for each of the chemical analyses and included blind field duplicates, equipment blanks, and trip blanks for VOC analyses.

Table 1
Soil Sampling Summary Table
Settling Basin
107 Selden Street, Berlin, Connecticut

Boring ID	Total Depth (ft)	VOCs	ETPH	SVOCs	PCBs	PAHS	RSR-15 Metals
B-188	15	1	3	2	4	1	3
B-189	15	1	2	2	4	0	3
B-190	15	1	2	2	4	0	3
B-191	15	1	2	2	0	0	3
B-192	15	1	2	2	0	0	3
B-193	15	1	2	2	0	0	3
B-194	15	1	2	2	0	0	3
B-195	15	1	2	2	0	0	3
B-196	15	1	2	2	0	0	3
B-197	15	1	2	2	0	0	3
B-198	10	0	0	0	3	0	0
B-199	10	0	0	0	3	0	0
B-200	15	1	2	2	4	0	3
B-201	10	0	0	0	3	0	0
B-202	10	0	0	0	3	0	0
B-203	10	0	0	0	3	0	0
B-204	15	1	2	2	4	0	3
B-205	10	0	0	1	3	0	0
B-206	10	0	2	2	3	0	0
B-207	10	0	0	0	3	0	0
B-208	15	1	2	2	4	0	3
B-209	10	0	0	0	3	0	0
B-210	10	0	0	0	3	0	0
B-211	10	0	0	0	3	0	0
B-212	15	1	2	2	4	0	3
B-213	10	0	0	0	3	0	0
B-214	10	0	0	0	3	0	0
B-215	10	0	0	0	3	0	0
B-216	15	1	2	2	4	0	3
B-217	10	0	0	0	3	0	0
B-218	5	0	0	0	2	0	0
B-219	5	0	0	0	2	0	0
B-220	5	0	0	0	2	0	0
B-221	5	0	0	1	2	0	1
B-222	5	0	0	0	2	0	0

Table 1 (continued)
Soil Sampling Summary Table
Settling Basin
107 Selden Street, Berlin, Connecticut

Boring ID	Total Depth (ft)	VOCs	ETPH	SVOCs	PCBs	PAHS	RSR-15 Metals
B-223	5	0	1	1	2	0	0
B-224	10	0	0	0	3	0	0
B-225	10	0	1	0	3	0	1
B-226	5	0	0	0	2	0	1
B-227	5	0	0	0	2	0	1
B-228	10	0	0	0	2	0	0
B-229	10	0	0	0	3	0	0
B-230	5	0	0	0	3	0	0
B-231	0.5	0	0	0	1	0	0
B-232	5	0	0	0	3	0	0
Totals	-	15	34	34	111	1	49

3.2 Groundwater Investigation

Five of the six existing groundwater monitoring wells on the property were sampled for PCBs and other analytical parameters that were not tested for during previous investigations. One monitoring well (MW-2) could not be located during the sampling event.

Weston & Sampson conducted one groundwater sampling event at the Site on February 1, 2018. Prior to groundwater sampling, all wells were gauged for depth-to-groundwater. Groundwater samples were collected using low-flow sampling techniques in accordance with EPA's Region I "Low Stress (low flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells", EPASOP-GW 001 (Revision 3, January 19, 2010). Groundwater sampling forms are provided in Appendix B.

The groundwater samples were collected after low-flow parameters stabilized using peristaltic pumps and new tubing dedicated to each well.

Samples were collected and analyzed for the following parameters:

- Total PCBs by EPA Method 8082;
- Volatile Organic Chemicals by EPA Method 8260;
- Extractable Total Petroleum Hydrocarbons (ETPH) by the CT DEEP method;
- Semivolatile Organic Chemicals (SVOCs) by EPA Method 8270; and
- Metals by EPA Methods 6010 and 7471.

Analyte lists were those listed in the EPA methods except for metals. For metals, the analyte list was the RSR-fifteen metals.

The samples were placed directly into new laboratory-prepared sample containers and stored on ice and shipped under proper chain-of custody protocols to Con-Test, a CT DPH certified laboratory, in East Longmeadow, Massachusetts for chemical analysis.

Laboratory analysis was performed and reported in accordance with the CT DEEP RCP. QA/QC samples were collected and analyzed for each of the chemical analyses and included blind field duplicates, equipment blanks, and trip blanks for VOC analyses.

4.0 REGULATORY FRAMEWORK

The following describes the remedial standards and criteria that were used to evaluate the analytical data.

4.1 Remediation Standard Regulations

Connecticut's RSRs, Sections 22a-133k-1 through 3, inclusive, of the RCSA provide detailed guidance and remedial criteria that may be used at any site to evaluate whether remediation is necessary to protect human health and the environment. The RSRs contain numeric and narrative standards for the investigation and/or remediation of soil and groundwater. Factors that may affect the degree of investigation and/or remediation at an impacted site include groundwater quality classification of the site, land use of the property, and proximity to sensitive receptors. The RSRs contain numeric cleanup standards and, when a substance is not listed in the RSRs, a process exists for using Additional Polluting Substance (APS) criteria. APS criteria must be requested and approved by the Commissioner to complete cleanup at any site under the RSRs.

4.1.1 Soil Criteria

The RSRs define two criteria that apply to soil, the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC defines the level of regulated compounds allowed in soil to a depth of 15 ft. bgs without posing a threat due to direct human exposure. The CT DEEP has established two sets of DEC using exposure assumptions appropriate for residential land use (RES DEC) and for industrial or commercial land use (I/C DEC). The CT DEEP and the RSRs define “residential activity” to include any activity related to a residence or dwelling, or to a school, hospital, day care center, playground, or outdoor recreation area. The I/C DEC, which are generally less stringent than the RES DEC because of the exposure assumptions used in their development, may only be applied if an Environmental Land Use Restriction (ELUR) prohibiting residential activity is recorded for the property. The I/C DEC are used to compare to soil data in the data tables because it is assumed that an industrial/commercial ELUR will be placed on the site following remediation.

The PMC were established by CT DEEP to prevent groundwater impacts resulting from migration of chemicals in soil to groundwater. The CT DEEP has established PMC for sites with a GA groundwater classification (GA PMC) and for sites with a GB groundwater classification (GB PMC). The Site is located in a GA classification area and the GA PMC has been used to evaluate soil data.

4.1.2 Groundwater Criteria

The RSRs define three criteria that may apply to groundwater, the Groundwater Protection Criteria (GWPC), Surface Water Protection Criteria (SWPC), and Volatilization Criteria (VC). Each are discussed below.

The GWPC defines the levels of regulated compounds allowed in groundwater for protection of the groundwater as a potable water source. The GWPC applies to sites located in a GA groundwater quality area. These criteria are applicable to this site since it is located in a GA groundwater quality area and the criteria are used to evaluate groundwater data.

The SWPC applies to groundwater that is discharging to a surface water body and one standard has been established for all surface water bodies regardless of the quality classification of the receiving water body. The SWPC specifies the levels of compounds allowable in groundwater just prior to discharging into surface water. These criteria are applicated to this site because groundwater discharges to the unnamed stream located to the west of the Site.

The VC establishes the allowable levels of VOCs in groundwater that are within 15 feet of the ground surface or a building. The VC is designed to protect humans from exposure to VOCs present in shallow groundwater. Residential and industrial/commercial VC (RES VC and I/C VC, respectively) have been established, with the RES VC being more stringent. The I/C VC only apply when an ELUR has been recorded for the property and this standard is used for comparison to groundwater data because it is assumed that an ELUR will be placed on the Site following remediation.

4.2 Federal PCB Regulations

The federal PCB regulations are found in the Code of Federal Regulations, Chapter 40, Part 761 (40 CFR Part 761) and area also referred to as the Toxic Substance Control Act (TSCA) regulations. Remedial standards are established in §761.61(a)(4) for high-occupancy and low-occupancy site uses. Soil data developed as part of the investigation of this Site are compared to the high-occupancy standards.

For an area that is not capped in a high-occupancy area, the standard for total PCBs is 1 mg/kg. For areas capped in accordance with the requirements of §761.61(a)(7) or an alternative approved by the Environmental Protection Agency (EPA) regional PCB coordinator, the standard is 10 mg/kg as long as a site restriction is placed on the area in accordance with §761.61(a)(8).

5.0 INVESTIGATION RESULTS

The following describes the results of the soil and groundwater sampling performed as part of the most recent Site investigation.

5.1 Soil Results

The following sections describe the laboratory results for soil from this additional investigation. Soil analytical results are presented in **Table 2**. The soil results for PCBs from this investigation and previous investigation activities are presented in **Figure 3**. Analytical data for other COCs during the most recent Site investigation are presented in **Figure 4**. Complete laboratory packages are provided in **Appendix C**.

Soil borings were advanced around the perimeter of areas previously investigated and sampled for both PCBs and other COCs to delineate the extent impacts to the Site. Additional soil borings were performed within areas previously investigated and analyzed for COCs other than PCBs to characterize the fill materials placed in the area.

The following summarizes the findings of the Site investigation

- PCBs: Soil was collected from all soil borings at multiple depths to characterize and to delineate PCB impacts. PCBs were found to exceed applicable remedial criteria from the RSRs but the extent of PCB impacts exceeding 1 mg/kg has been delineated following completion of the most recent Site investigation as shown on **Figure 3**.
- Metals: Twelve of the perimeter borings were analyzed for metals and all results had detections above the reporting limit. However, as shown on Figure 4, none results exceeded applicable RSR criteria. Results for metals within the area previously investigated found limited metals impacts exceeding applicable RSR criteria. Barium and Beryllium were found to exceed the GA PMC at one sample location and Arsenic was found to exceed the I/C DEC in two samples from one soil boring.
- SVOCs: Twelve of the perimeter samples were analyzed for SVOCs. Four locations had results for PAHs that exceeded applicable RSR criteria, but characterization sampling was continued until these impacts had been delineated. PAHs were also found to exceed applicable RSR criteria within the area previously characterized for PCBs. The highest PAH concentrations were found at soil boring location B-206. Wood chips were found from 3 to 4 ft bgs and it appeared that this wood had been preserved. It is considered likely that these wood chips are present from the use of the area for pole training.
- ETPH: ETPH was detected in nearly all of the samples collected but only exceeded the I/C DEC at one location. This location, B-206, is the same where there were high detections of PAHs.
- VOCs: VOCs were not detected in any of the samples collected.

5.2 Groundwater Results

On February 1, 2018 five of the six monitoring wells on the Site were sampled. MW-2 could not be

located and was not sampled. MW-4 had low recharge and did not provide enough groundwater for all sample analyses.

The following summarizes the findings from this investigation:

- PCBs: No PCBs were detected above the reporting limit in any of the five wells sampled.
- SVOCs: No SVOCs were detected above the reporting limit in any of the five wells sampled.
- ETPH: ETPH was detected above the reporting limit in monitoring wells MW-1, MW-3 and MW-6. All detections were well below applicable RSR criteria, however, a SWPC for ETPH has not been promulgated by CT DEEP.
- Metals: Metals were detected above the reporting limit in all of the five wells sampled. Copper and silver were detected above the SWPC in MW-3 located just outside of the former settling basin perimeter. Cadmium and Silver were detected in concentrations that exceed the SWPC and GWPC in MW-1 located inside of the former settling basin perimeter. Barium and silver were detected above the SWPC in MW-6 located just west of the former settling basin.

6.0 CONCEPTUAL SITE MODEL

An updated conceptual site model (CSM) has been developed for the Site based upon the data collected to date. The CSM is a representation of the processes that led to impacts to soil and groundwater at the Site and that control the transport, migration, and impacts of contamination to potential receptors.

6.1 Updated Conceptual Site Model

The initial site conditions prior to construction of the Eversource Berlin Campus are not known. However, based on a historic aerial photograph dated August 21, 1969 and interviews with knowledgeable Eversource staff, the Site area was filled and then used as a pole-training facility. After the use as a training area was terminated, the area was regraded, and the settling basin was constructed to receive stormwater runoff from the paved area and parking garage constructed to the west.

6.2 Potential Sources and Chemicals of Concern

The following potential sources of COCs at the Site have been identified:

- Fill: Fill materials placed at the Site is a potential source of PCB and other COC impacts to soil. The characterization of soil at the Site indicate no distinct patterns of impacts, especially PCBs, in the soil. Placing of fill materials with varying levels of impacts and then reworking and regrading the fill could account for this pattern of impacts. Metals and PCBs in the fill material is considered to be the primary source of impacts to the Site and, because the extent of PCBs has been delineated to a concentration < 1 mg/kg, the extent of impacted fill placed at the Site has been delineated.
- Pole Training Area: There is a potential that PCB-Oil filled equipment was used during training operations in this area and surficial soil impacts due to releases during training are possible. However, because the area was regraded to construct the settling basin, some of these release areas may have been buried. Preserved wood poles would have been used in the training area and surficial and deeper soil impacts may be present due to releases from the poles and also if wood chipped off the poles onto or into soil.
- Settling Basin: The settling basin received stormwater discharge from the asphalt-covered area to the west of the Site that was used for equipment storage laydown. PCB-containing materials were historically stored on the asphalt. Releases from this equipment could have washed off the asphalt and discharged to the Settling Basin and could be a source of PCB, PAH, and metals to surficial soil.

6.3 Migration and Exposure Pathways

Potential transport mechanisms include migration through soil via stormwater runoff previously discharged to the settling basin and from stormwater falling directly onto the Site. No portions of the Site are paved, resulting in exposed soil throughout. Exposed soil is more susceptible to migration from runoff and rainfall within the vadose zone. Groundwater impacts, primarily for metals, were found in monitoring wells installed within locations were fill materials were historically placed. Thus, leaching of

soil impacts into groundwater is considered to be a complete pathway.

Direct exposure to soil at the Site is a potential exposure pathway. However, the area is not currently in use and much of the area has been fenced to prevent exposure to areas where significant hazards were identified.

Dust generation and transport in wind is a potential migration and exposure pathway. However, the entire area is covered in grass and dust generation has not been noted. Thus, the migration and exposure pathway is not considered to be complete.

6.4 Site Receptors

The Site is no longer in use and an area has been fenced because of a Significant Environmental Hazard involving PCBs in shallow soil. Thus, site users and trespassers are not considered to be potential receptors. However, the presence of metals in groundwater indicates a potential for migration from the Site to the unnamed stream.

7.0 DATA QUALITY ASSESSMENT/DATA USABILITY EVALUTATION

A Data Quality Assessment (DQA) was performed on the soil and groundwater analytical data received for the investigation performed in 2018. Each of the analytical data reports were assessed to determine the quality of the data as received. The following summarizes the DQA:

- All data was reported following the CT DEEP Reasonable Confidence Protocols. For each analytical method, narration was provided for each analysis for which results fell outside of acceptance criteria.
- Equipment Blanks, Trip Blanks, and other QA/QC samples used to measure potential contamination were free of analytes.
- Laboratory Control Samples and Duplicates (LCS/LCSDs) were analyzed with each analytical data batch. In general, the recoveries of spiked compounds and the relative percent difference (RPD) between duplicate samples were within acceptance criteria. No trends in the data for LCS/LCSD samples was observed that would indicate a bias in the data set.
- Matrix Spike Samples and Duplicates (MS/MSDs) were analyzed with each analytical data batch. In general, the recoveries of spiked compounds and the relative percent difference (RPD) between duplicate samples were within acceptance criteria. No trends in the data for MS/MD samples was observed that would indicate a bias in the data set.
- Samples were received under chain of custody and any discrepancies in the documentation were promptly resolved. Samples were received at the appropriate temperature and properly preserved. Samples were extracted and analyzed within specified holding times.
- Required reporting limits were specified on the chain of custody forms and these reporting limits were generally achieved. Some samples contained target analytes at concentrations high enough to require dilution and the reporting limits for other analytes did not always meet requested reporting limits. The interpretation of these data has been modified as needed and no bias in the overall data set is seen.

The purpose of these data is to characterize and to delineate potential impacts to soil and groundwater at the Site. The summary of the DQA above indicates that the data are acceptable for this purpose. Thus, the Data Usability Evaluation is that the data are appropriate their intended use.

8.0 SUMMARY AND CONCLUSIONS

Pertinent findings of the Additional 2018 Investigation include the following:

- The extent of PCB impacts to soil has been delineated to <1 mg/kg and a remedial design can be completed to remediate these impacts. PCBs are the primary COC in the area and releases are potentially from the fill placed and historical Site operations. Given that PCBs are delineated, the extent of the fill material placed in the area is considered to be delineated.
- Metal soil results indicated limited impacts, but groundwater is impacted with metals at concentrations that exceed applicable remedial criteria. Metals in groundwater indicates a potential migration pathway to a sensitive receptor (i.e., the unnamed stream) and these impacts should be remediated. The primary source for these metals is considered to be fill materials placed at the Site.
- PAHs were detected at concentrations above RSR criteria in soil at seven locations throughout the Site but other SVOCs were not detected. No SVOCs were not detected in groundwater. The likely sources of these PAHs are considered to be either from stormwater runoff into the settling basin or from the use of treated wood poles as part of training operations.
- ETPH soil results was detected at concentrations exceeding the RSR criteria in only one location, B-193 located south of the former settling basin perimeter. The sample was resubmitted for SPLP and results came back below RSR criteria. ETPH was detected in groundwater at the site. Potential sources of ETPH are fill placed in the area, releases during training operations, and from stormwater discharge to the settling basin.
- VOCs are not a COC at this Site.
- No data gaps have been identified in the data and they are sufficient for designing remedial actions

9.0 REMEDAITION RECOMMENDATIONS

The following describes the recommended remedial alternative to address soil and groundwater impacts at the Site. Planned remedial excavations are shown on Figure 6 and the final Site restoration is shown on Figure 7. Remediation at the Site is anticipated to include the following, but the final remedial design will be submitted to EPA and CT DEEP for review, comment, and approval.

- Soil with ≥50 mg/kg total PCBs will be excavated and transported offsite for disposal at a Chemical Waste Landfill and the extents of the excavation confirmed with verification sampling performed as per 40 CFR Part 761 Subpart O;
- Soil with >10 mg/kg total PCBs will be excavated and transported offsite to a landfill permitted to accept such wastes and the extents of the excavation confirmed with verification sampling performed as per 40 CFR Part 761 Subpart O;
- Soil with total PCB concentrations >1 mg/kg will be excavated and consolidated onsite with the extent of the excavations performed outside of the cap area verified as per the sampling requirement of 40 CFR Part 761 Subpart O;
- The area of remaining PCB-impacted soil will be rendered inaccessible by placing four feet of clean backfill material; and
- An ELUR would be placed on the area limiting future use to industrial/commercial and also limiting future excavation or construction in the area.

Rendering the soil inaccessible will require submittal of a remedial plan to EPA and CT DEEP. Following remediation, an ELUR will be required for the extent of the remediation area. In addition, a final remedial action report will be submitted that will describe the remedial actions performed and a description of the post-remediation groundwater monitoring to be performed.

TABLES

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-188A	B-188B	B-188C	B-188D	DUP-7/Duplicate of B-188D	B-188E	B-188F	B-189A	B-189B	B-189C	B-189D	B-189E	B-190A	DUP-5/Duplicate B-190A	B-190B	B-190C	B-190D	B-190E
SAMPLE DEPTH (ft bgs)				0.0-0.5	3.0-4.0	7.0-8.0	10.0-11.0		13.0-15.0	12.0-13.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5		3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0
DATE SAMPLED				1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC [4]	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655/18B0004	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655
PARAMETER (Units) [2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1221	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1232	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1242	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1248	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1254	NE	NE	NE	**0.14**	**0.13**	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB-1260	NE	NE	NE	**0.49**	**0.45**	<0.090			<0.097		**0.58**	**0.36**	<0.093	<0.098		**0.16**	**0.097**	<0.090	**0.11**	**1.5**	
PCB 1262	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
PCB 1268	--	--	--	<0.095	<0.094	<0.090			<0.097		<0.094	<0.094	<0.093	<0.098		<0.095	<0.095	<0.090	<0.093	<0.18	
Total PCBs	1	10	NE	**0.63**	**0.58**	<0.090			<0.097		**0.58**	**0.36**	<0.093	<0.098		**0.16**	**0.097**	<0.090	**0.11**	**1.5**	
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS						BDL					BDL						BDL	
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	**0.24**					<0.21	<0.19	**0.27**			<0.21		<0.20	<0.20			<0.19	
Anthracene	1,000	2,500	40	**0.38**					<0.21	<0.19	**0.43**			<0.21		<0.20	<0.20			<0.19	
Benzo(a)anthracene	1	7.8	1	**1.20**					<0.21	**0.23**	**1.2**			<0.21		<0.20	<0.20			<0.19	
Benzo(a)pyrene	1	1	1	**1.20**					<0.21	<0.19	**1.1**			<0.21		<0.20	<0.20			<0.19	
Benzo(b)fluoranthene	1	7.8	1	**1.60**					<0.21	**0.25**	**1.5**			<0.21		**0.23**	<0.20			<0.19	
Benzo(g,h,i)perylene	8.4	78	1	**0.67**					<0.21	<0.19	**0.66**			<0.21		<0.20	<0.20			<0.19	
Benzo(k)fluoranthene	8.4	78	1	**0.64**					<0.21	<0.19	**0.54**			<0.21		<0.20	<0.20			<0.19	
Carbazole	31	290	0.2	<0.20					<0.21	<0.20	<0.20			<0.21		<0.20	<0.20			<0.19	
Chrysene	84	780	1	**1.20**					<0.21	**0.22**	**1.1**			<0.21		<0.20	<0.20			<0.19	
Dibenz(a,h)anthracene	1	1	1	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Fluoranthene	1,000	2,500	5.6	**2.70**					<0.21	**0.54**	**2.7**			<0.21		**0.29**	<0.20			<0.19	
Fluorene	1,000	2,500	5.6	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Indeno(1,2,3-cd)pyrene	1	7.8	1	**0.72**					<0.21	<0.19	**0.6**			<0.21		<0.20	<0.20			<0.19	
Naphthalene	1,000	2,500	5.6	<0.20					<0.21	<0.19	<0.20			<0.21		<0.20	<0.20			<0.19	
Phenanthrene	1,000	2,500	4	**1.50**					<0.21	**0.61**	**1.6**			<0.21		<0.20	<0.20			<0.19	
Pyrene	1,000	2,500	4	**2.30**					<0.21	**0.45**	**2.2**			<0.21		**0.24**	<0.20			<0.19	
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	8.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**120**					**53**	**200**	**36**			<12		**46**	**48**			**12**	
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<2.00			<2.0	**2.3**	<2.0		<2.0			<2.0	<1.8	<1.9	**3.3**			<1.9	**3.3**
Arsenic	10	30	NE	<2.00			<2.0	<1.9	<2.0		<2.0			<2.0	<1.8	<1.9	<2.0			<1.9	<1.9
Barium	4,700	140,000	NE	**73.0**			**66**	**75**	**120**		**90**			**43**	**64**	**47**	**130**			**72**	**100**
Beryllium	2	2	NE	<0.20			**0.26**	**0.30**	**0.30**		**0.21**			<0.20	**0.92**	<0.19	**0.98**			**0.21**	**0.60**
Cadmium	34	1,000	NE	**0.40**			<0.20	<0.19	**0.34**		**0.21**			<0.20	<0.18	**0.65**	<0.20			<0.19	**0.30**
Chromium	NE	NE	NE	**14**			**21**	**21**	**20**		**20**			**13**	**21**	**13**	**24**			**24**	**23**
Copper	2,500	76,000	NE	**27**			**29**	**32**	**28**		**32**			**23**	**43**	**17**	**27**			**34**	**57**
Lead	400	1,000	NE	**10**			**11**	**11**	**87**		**19**			**7.0**	**9.2**	**17**	**11**			**16**	**11**
Mercury	20	610	NE	<0.029			<0.029	<0.026	**0.068**		<0.030			<0.031	<0.029	<0.031	<0.030			**0.030**	<0.027
Nickel	1,400	7,500	NE	**12**			**18**	**18**	**17**		**19**			**11**	**19**	**9.8**	**22**			**22**	**22**
Silver	340	10,000	NE	<0.39			<0.39	<0.37	<0.400		<0.39			<0.41	<0.37	<0.39	<0.40			<0.38	<0.37
Vanadium	470	14,000	NE	**33**			**37**	**30**	**42**		**45**			**22**	**42**	**25**	**37**			**41**	**41**
Zinc	20,000	610,000	NE	**59**			**45**	**46**	**97**		**65**			**24**	**47**	**58**	**51**			**62**	**62**
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50								<2.0										
Barium	NE	NE	1000								**1600**										
Beryllium	NE	NE	4								**7.3**										
Cadmium	NE	NE	5								**4**										
Copper	NE	NE	1300								**160**										
Lead	NE	NE	15								**8.6**										
Zinc	NE	NE	5000								**170**										
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002								<0.00010										
Total Solids (%)	NE	NE	NE	**84.2**	**85.4**	**88.5**	**85.3**	**87.4**	**82.1**	**88.4**	**85.2**	**85.5**	**86.5**	**81.9**	**90.6**	**84.1**	**83.8**	**88.9**	**83.9**	**87.4**	**90.3**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC and GA PMC
= Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-191A	B-191B	DUP-3/Duplicate of B-191B	B-191C	DUP-4/Duplicate of B-191C	B-192A	B-192B	B-192C	B-193A	B-193B	B-193C	B-194A	B-194B	B-194C	B-195A	B-195B	B-195C	B-196A
SAMPLE DEPTH (ft bgs)				0.0-0.5	10.0-12.0	10.0-12.0	13.0-14.0	13.0-14.0	0.0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	10.0-12.0	13.0-14.0	0.0-0.5
DATE SAMPLED				1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/19/18	1/19/18	1/19/18	1/18/18	1/18/18	1/18/18	1/18/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	18A0655/18B00004	18A0655	18A0655	18A0655	18A0655	180552	180552/18B0002	180552	180552/18B0002	180552	180552	18A0655	18A0655	18A0655	180552	180552	180552	180552
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--																		
PCB-1221	--	--	--																		
PCB-1232	--	--	--																		
PCB-1242	--	--	--																		
PCB-1248	--	--	--																		
PCB-1254	NE	NE	NE																		
PCB-1260	NE	NE	NE																		
PCB 1262	--	--	--																		
PCB 1268	--	--	--																		
Total PCBs	1	10	NE																		
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS		BDL	BDL				BDL			BDL			BDL			BDL		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	<0.20	<0.19	<0.19			<0.24	<0.21		**0.44**	<0.19		**0.59**	<0.20		<0.23	<0.20		<0.20
Anthracene	1,000	2,500	40	<0.20	<0.19	<0.19			<0.24	<0.21		**0.59**	<0.19		**1.0**	<0.20		<0.23	<0.20		<0.20
Benzo(a)anthracene	1	7.8	1	<0.20	<0.19	<0.19			**0.35**	<0.21		**0.91**	<0.19		**3.1**	<0.20		<0.23	<0.20		**0.27**
Benzo(a)pyrene	1	1	1	<0.20	<0.19	<0.19			**0.34**	<0.21		**0.81**	<0.19		**2.9**	<0.20		<0.23	<0.20		**0.29**
Benzo(b)fluoranthene	1	7.8	1	<0.20	<0.19	<0.19			**0.53**	<0.21		**1.0**	<0.19		**3.9**	<0.20		<0.23	<0.20		**0.38**
Benzo(g,h,i)perylene	8.4	78	1	<0.20	<0.19	<0.19			<0.24	<0.21		**0.48**	<0.19		**2**	<0.20		<0.23	<0.20		**0.20**
Benzo(k)fluoranthene	8.4	78	1	<0.20	<0.19	<0.19			<0.24	<0.21		**0.39**	<0.19		**1.6**	<0.20		<0.23	<0.20		<0.20
Carbazole	31	290	0.5	<0.20	<0.19	<0.19			<0.24	<0.21		**0.27**	<0.19		**0.58**	<0.20		<0.23	<0.20		<0.20
Chrysene	84	780	1	<0.20	<0.19	<0.19			**0.39**	<0.21		**0.88**	<0.19		**3.2**	<0.20		<0.23	<0.20		**0.28**
Dibenz(a,h)anthracene	1	1	1	<0.20	<0.19	<0.19			<0.24	<0.21		<0.21	<0.19		**0.47**	<0.20		<0.23	<0.20		<0.20
Fluoranthene	1,000	2,500	5.6	<0.20	<0.19	<0.19			**0.69**	<0.21		**2.1**	<0.19		**6.7**	<0.20		<0.23	<0.20		**0.56**
Fluorene	1,000	2,500	5.6	<0.20	<0.19	<0.19			<0.24	<0.21		**0.35**	<0.19		**0.46**	<0.20		<0.23	<0.20		<0.20
Indeno(1,2,3-cd)pyrene	1	7.8	1	<0.20	<0.19	<0.19			**0.24**	<0.21		**0.65**	<0.19		**2.2**	<0.20		<0.23	<0.20		**0.21**
Naphthalene	1,000	2,500	5.6	<0.20	<0.19	<0.19			<0.24	<0.21		**0.57**	<0.19		<0.41	<0.20		<0.23	<0.20		<0.20
Phenanthrene	1,000	2,500	4	<0.20	<0.19	<0.19			**0.34**	<0.21		**2.1**	<0.19		**4.8**	<0.20		<0.23	<0.20		**0.26**
Pyrene	1,000	2,500	4	<0.20	<0.19	<0.19			**0.69**	<0.21		**1.8**	<0.19		**6.6**	<0.20		<0.23	<0.20		**0.45**
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.5																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**21**	<11	<11			**89**	<12		**550**	<11		**190**	<12		**25**	<12		**43**
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]									**0.16**									
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<1.9	<1.9		<1.8	**2.5**	<2.3	<2.1	<1.9	<2.1	<1.8	<1.9	<2.0	<2.0	<1.9	<2.2	<1.9	<1.9	<1.9
Arsenic	10	10	NE	<1.9	<1.9		<1.8	<1.8	**4.0**	**11**	**41**	<2.1	<1.8	<1.8	<2.0	<2.0	<1.9	<2.2	<1.9	<1.9	<1.9
Barium	4,700	140,000	NE	**120**	**62**		**61**	**80**	**99**	**57**	**120**	**85**	**66**	**89**	**65**	**100**	**110**	**88**	**140**	**22**	**76**
Beryllium	2	2,000	NE	**0.99**	**0.48**		**0.42**	**0.54**	**0.61**	<0.21	**0.27**	**0.36**	<0.19	**0.44**	<0.20	**0.53**	**0.59**	**0.46**	**0.69**	<0.19	**0.36**
Cadmium	34	1,000	NE	<0.19	<0.19		<0.18	**0.23**	**0.56**	**0.35**	**1.4**	<0.21	**0.20**	**0.20**	**0.59**	<0.20	**0.20**	**0.22**	**0.22**	<0.19	<0.19
Chromium	NE	NE	NE	**23**	**20**		**19**	**20**	**16**	**17**	**16**	**18**	**19**	**26**	**19**	**20**	**22**	**16**	**20**	**6.1**	**17**
Copper	2,500	76,000	NE	**36**	**36**		**47**	**36**	**36**	**32**	**35**	**26**	**32**	**70**	**26**	**43**	**33**	**26**	**43**	**17**	**32**
Lead	400	1,000	NE	**12**	**10**		**10**	**9.4**	**23**	**18**	**64**	**15**	**8.9**	**9.7**	**52**	**11**	**11**	**15**	**8.8**	**3.1**	**13**
Mercury	20	610	NE	<0.029	<0.027		<0.029	<0.027	**0.049**	<0.030	<0.029	**0.039**	**0.060**	<0.029	**0.088**	<0.03	<0.028	**0.057**	<0.029	<0.0096	<0.030
Nickel	1,400	7,500	NE	**21**	**19**		**19**	**19**	**19**	**23**	**27**	**16**	**22**	**28**	**19**	**18**	**20**	**19**	**22**	**8.3**	**19**
Silver	340	10,000	NE	<0.39	<0.37		<0.36	<0.36	<0.46	**1.6**	**0.69**	<0.42	**1.6**	<0.38	<0.40	<0.39	<0.38	<0.44	<0.39	<0.37	<0.38
Vanadium	470	14,000	NE	**36**	**35**		**34**	**31**	**37**	**26**	**30**	**30**	**42**	**37**	**32**	**36**	**41**	**31**	**35**	**9.1**	**30**
Zinc	20,000	610,000	NE	**53**	**50**		**49**	**45**	**59**	**51**	**53**	**51**	**64**	**67**	**60**	**48**	**58**	**57**	**53**	**21**	**48**
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50	<2.0						**5.6**											
Barium	NE	NE	1000	**140**						<20											
Beryllium	NE	NE	1	<2.0						<2.0											
Cadmium	NE	NE	5	<2.5						<2.5											
Copper	NE	NE	1300	<25						<25											
Lead	NE	NE	15	<5.0						<5.0											
Zinc	NE	NE	5000	<50						<50											
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002	<0.00010						<0.00010											
Total Solids (%)	NE	NE	NE	**86.1**	**89.7**	**89.5**	**90.8**	**90.5**	**70.7**	**81.2**	**87.8**	**79.2**	**90.4**	**88.8**	**83.7**	**84.9**	**87.8**	**73.6**	**84.5**	**88.8**	**85.2**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-196B	B-196C	B-197A	B-197B	B-197C	B-198A	B-198B	DUP-6/Duplicate of B-198B	B-198C	B-199A	B-199B	B-199C	B-200A	B-200B	B-200C	B-200D	B-200E	B-201A
SAMPLE DEPTH (ft bgs)				9.0-11.0	13.0-14.0	0-0.5	10.0-12.0	13.0-14.0	0.0-0.5	3.0-4.0	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	5.0-7.0	7.0-8.0	13.0-14.0	0-0.5
DATE SAMPLED				1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18	1/19/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC [3]	180552	180552	180552/18B0002	180552	180552	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	18A0655	180552/18B0002
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1221	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1232	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1242	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1248	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1254	NE	NE	NE						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB-1260	NE	NE	NE						**0.12**	<0.093	<0.089	<0.11	**0.13**	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		**2.5**
PCB 1262	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
PCB 1268	--	--	--						<0.12	<0.093	<0.089	<0.11	<0.11	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		<0.45
Total PCBs	1	10	NE						**0.12**	<0.093	<0.089	<0.11	**0.13**	<0.091	<0.098	<0.11	<0.096	<0.098	<0.091		**2.5**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		**0.62**
Total PCBs	NE	NE	0.5																		**0.62**
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS	BDL			BDL											BDL			
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	<0.19		**0.75**	<0.19									<0.23		<0.21			
Anthracene	1,000	2,500	40	<0.19		**1.9**	<0.19									<0.23		<0.21			
Benzo(a)anthracene	1	7.8	1	<0.19		**3.3**	<0.19									<0.23		<0.21			
Benzo(a)pyrene	1	1	1	<0.19		**3.0**	<0.19									<0.23		<0.21			
Benzo(b)fluoranthene	1	7.8	1	<0.19		**3.8**	<0.19									<0.23		<0.21			
Benzo(g,h,i)perylene	84	78	1	<0.19		**1.7**	<0.19									<0.23		<0.21			
Benzo(k)fluoranthene	84	78	1	<0.19		**1.5**	<0.19									<0.23		<0.21			
Carbazole	31	290	0.2	<0.19		**0.49**	<0.19									<0.23		<0.21			
Chrysene	84	780	1	<0.19		**3.2**	<0.19									<0.23		<0.21			
Dibenz(a,h)anthracene	1	1	1	<0.19		**0.43**	<0.19									<0.23		<0.21			
Fluoranthene	1,000	2,500	5.6	<0.19		**7.1**	<0.19									<0.23		<0.21			
Fluorene	1,000	2,500	5.6	<0.19		**0.63**	<0.19									<0.23		<0.21			
Indeno(1,2,3-cd)pyrene	1	7.8	1	<0.19		**1.9**	<0.19									<0.23		<0.21			
Naphthalene	1,000	2,500	5.6	<0.19		<0.49	<0.19									<0.23		<0.21			
Phenanthrene	1,000	2,500	4	<0.19		**4.5**	<0.19									<0.23		<0.21			
Pyrene	1,000	2,500	4	<0.19		**6.3**	<0.19									<0.23		<0.21			
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4			<0.30															
Anthracene	NE	NE	40			<0.20															
Benzo(a)anthracene	NE	NE	1			0.060															
Benzo(a)pyrene	NE	NE	1			<0.10															
Benzo(b)fluoranthene	NE	NE	1			<0.060															
Benzo(g,h,i)perylene	NE	NE	1			<0.20															
Benzo(k)fluoranthene	NE	NE	1			<0.20															
Carbazole	NE	NE	0.2																		
Chrysene	NE	NE	1			<0.20															
Dibenz(a,h)anthracene	NE	NE	1			<0.20															
Fluoranthene	NE	NE	5.6			<0.10															
Fluorene	NE	NE	5.6			<1.0															
Indeno(1,2,3-cd)pyrene	NE	NE	1			<0.20															
Naphthalene	NE	NE	5.6			<1.0															
Phenanthrene	NE	NE	4			**0.1**															
Pyrene	NE	NE	4			<1.0															
ETPH by CT Method (mg/kg)	500	2,500	500	<11		**150**	<11									**74**		<12			
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE	<1.9	<1.8	<2.1	<1.9	<1.8								<2.2		<2.0		<1.9	
Arsenic	10	10	NE	<1.9	<1.8	<2.1	**9.4**	<1.8								<2.2		<2.0		<1.9	
Barium	4,700	140,000	NE	**270**	**92**	**100**	**67**	**100**								**100**		**61**		**110**	
Beryllium	2	2	NE	**0.48**	**0.41**	**0.44**	**0.30**	**0.60**								**0.48**		**0.36**		**0.56**	
Cadmium	34	1,000	NE	**0.25**	<0.18	**0.22**	**0.64**	**0.20**								<0.22		<0.20		<0.19	
Chromium	NE	NE	NE	**20**	**16**	**18**	**20**	**23**								**15**		**15**		**22**	
Copper	2,500	76,000	NE	**41**	**32**	**27**	**43**	**33**								**19**		**40**		**49**	
Lead	400	1,000	NE	**9.8**	**7.3**	**19**	**6.7**	**10**								**23**		**9.0**		**11**	
Mercury	20	610	NE	<0.028	<0.029	**0.092**	<0.030	<0.028								**0.0400**		<0.030		<0.028	
Nickel	1,400	7,800	NE	**22**	**17**	**19**	**21**	**30**								**13**		**16**		**25**	
Silver	340	10,000	NE	<0.37	<0.37	<0.42	<0.38	**1.6**								<0.44		<0.40		<0.38	
Vanadium	470	14,000	NE	**30**	**29**	**31**	**37**	**26**								**40**		**27**		**40**	
Zinc	20,000	610,000	NE	**52**	**53**	**57**	**59**	**85**								**64**		**47**		**60**	
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Asbestos	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	4																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**88.7**	**89.3**	**78.7**	**87.2**	**88.4**	**69.1**	**86**	**85.3**	**75.9**	**71.5**	**88.2**	**81.7**	**75.2**	**83.2**	**81.9**	**87.7**	**88.4**	**70.3**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-201B	B-201C	B-202A	B-202B	B-202C	B-203A	B-203B	B-203C	B-204A	B-204B	B-204C	B-204D	B-204E	B-205A	B-205B	B-205C	B-206A	B-206B
SAMPLE DEPTH (ft bgs)				3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5	4.0-5.0	7.0-8.0	0.0-0.5	3.0-4.0
DATE SAMPLED				1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/18/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	180552	180552	180552	180552/18B0002	180552/18B0002	180552	180552	180552	180552	180552	180552	180552	180552	18A0552	18A0552	18A0552	18A0552	18A0552/18B0001
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1221	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1232	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1242	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1248	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB-1254	NE	NE	NE	<0.086	<0.10	**0.9**	**1.8**	**2.1**	**0.28**	**1.2**	<0.087	<0.099	**0.50**	<0.086	<0.088		<0.094	**0.42**	<0.086	<0.10	<0.085
PCB-1260	NE	NE	NE	**0.16**	<0.10	**2.6**	**4.0**	**5.0**	**1.1**	**2.7**	**0.39**	**0.60**	**1.4**	<0.086	<0.088		**1.0**	**0.78**	**0.33**	**0.98**	**0.21**
PCB 1262	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
PCB 1268	--	--	--	<0.086	<0.10	<0.52	<0.45	<0.96	<0.092	<0.46	<0.087	<0.099	<0.36	<0.086	<0.088		<0.094	<0.090	<0.086	<0.10	<0.085
Total PCBs	1	10	NE	**0.16**	<0.10	**3.5**	**5.8**	**7.1**	**1.38**	**3.9**	**0.39**	**0.60**	**1.9**	<0.086	<0.088		**1.0**	**1.20**	**0.33**	**0.98**	**0.21**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5				**1.4**	**1**													
Total PCBs	NE	NE	0.5				**1.4**	**1**													
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS												BDL						
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4									<0.21			<0.19			<0.19			**46**
Anthracene	1,000	2,500	40									<0.21			<0.19			<0.19			**65**
Benzo(a)anthracene	1	7.8	1									<0.21			<0.19			**0.19**			**100**
Benzo(a)pyrene	1	1	1									<0.21			<0.19			**0.20**			**99**
Benzo(b)fluoranthene	1	7.8	1									<0.21			<0.19			**0.24**			**110**
Benzo(g,h,i)perylene	8.4	78	1									<0.21			<0.19			<0.19			**48**
Benzo(k)fluoranthene	8.4	78	1									<0.21			<0.19			<0.19			**42**
Carbazole	31	290	0.5									<0.21			<0.19			<0.19			**57**
Chrysene	84	780	1									<0.21			<0.19			**0.19**			**96**
Dibenz(a,h)anthracene	1	1	1									<0.21			<0.19			<0.19			<2.0
Fluoranthene	1,000	2,500	5.6									**0.27**			<0.19			**0.41**			**240**
Fluorene	1,000	2,500	5.6									<0.21			<0.19			<0.19			**37**
Indeno(1,2,3-cd)pyrene	1	7.8	1									<0.21			<0.19			<0.19			**47**
Naphthalene	1,000	2,500	5.6									<0.21			<0.19			<0.19			**27**
Phenanthrene	1,000	2,500	4									<0.21			<0.19			<0.19			**230**
Pyrene	1,000	2,500	4									**0.25**			<0.19			**0.34**			**220**
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		**31**
Anthracene	NE	NE	40																		**11**
Benzo(a)anthracene	NE	NE	1																		**1.1**
Benzo(a)pyrene	NE	NE	1																		**1**
Benzo(b)fluoranthene	NE	NE	1																		**1.1**
Benzo(g,h,i)perylene	NE	NE	1																		<0.5
Benzo(k)fluoranthene	NE	NE	1																		<2.0
Carbazole	NE	NE	0.5																		**3**
Chrysene	NE	NE	1																		**4**
Dibenz(a,h)anthracene	NE	NE	1																		<2.0
Fluoranthene	NE	NE	5.6																		**18**
Fluorene	NE	NE	5.6																		**18**
Indeno(1,2,3-cd)pyrene	NE	NE	1																		**2**
Naphthalene	NE	NE	5.6																		<10
Phenanthrene	NE	NE	4																		**40**
Pyrene	NE	NE	4																		**17**
ETPH by CT Method (mg/kg)	500	2,500	500									**180**			**39**						**3700**
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		**0.61**
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE									<2.1			<1.9	<1.8					
Arsenic	10	10	NE									<2.1			<1.9	<1.8					
Barium	4,700	140,000	NE									**42**			**84**	**140**					
Beryllium	2	70	NE									<0.21			**0.35**	**0.42**					
Cadmium	34	1,000	NE									<0.21			<0.19	**0.25**					
Chromium	NE	NE	NE									**13**			**17**	**17**					
Copper	2,500	76,000	NE									**16**			**40**	**53**					
Lead	400	1,000	NE									**22**			**8.7**	**8.2**					
Mercury	20	610	NE									<0.022			<0.028	<0.027					
Nickel	1,400	7,500	NE									**9.4**			**18**	**21**					
Silver	340	10,000	NE									<0.42			<0.37	<0.36					
Vanadium	470	14,000	NE									**23**			**28**	**31**					
Zinc	20,000	610,000	NE									**36**			**44**	**57**					
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	1																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**92.0**	**76.0**	**76.8**	**88.8**	**81.7**	**84.2**	**86.2**	**90.3**	**79.4**	**85.1**	**92.1**	**88.7**	**89.8**	**82.7**	**89.3**	**91.6**	**77.3**	**91.0**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
= Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-206C	B-207A	B-207B	B-207C	B-208A	B-208B	B-208C	B-208D	B-208E	B-209A	B-209B	B-209C	B-210A	B-210B	DUP-2/Duplicate B-210B	B-210C	B-211A	B-211B
SAMPLE DEPTH (ft bgs)				7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	13.0-14.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0		7.0-8.0	0-0.5	3.0-4.0
DATE SAMPLED				1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0552	18A0554	18A0552	18A0554	18A0554
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1221	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1232	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1242	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1248	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1254	NE	NE	NE	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1260	NE	NE	NE	<0.092	**1.6**	<0.088	<0.091	**1.6**	**0.94**	<0.094	<0.098		**1.9**	**1.9**	<0.097	**1.2**	<0.088	<0.087	<0.091	**0.94**	**0.11**
PCB 1262	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
PCB-1268	--	--	--	<0.092	<0.53	<0.088	<0.091	<0.49	<0.091	<0.094	<0.098		<0.48	<0.46	<0.097	<0.10	<0.088	<0.087	<0.091	<0.10	<0.088
Total PCBs	1	10	NE	<0.092	**1.6**	<0.088	<0.091	**1.6**	**0.94**	<0.094	<0.098		**1.9**	**1.9**	<0.097	**1.2**	<0.088	<0.087	<0.091	**0.94**	**0.11**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS																		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4	**0.36**				<0.21			<0.21										
Anthracene	1,000	2,500	40	**0.49**				**0.35**			<0.21										
Benzo(a)anthracene	1	7.8	1	**0.76**				**1.0**			<0.21										
Benzo(a)pyrene	1	1	1	**0.64**				**0.99**			<0.21										
Benzo(b)fluoranthene	1	7.8	1	**0.76**				**1.3**			<0.21										
Benzo(g,h,i)perylene	8.4	78	1	**0.29**				**0.57**			<0.21										
Benzo(k)fluoranthene	8.4	78	1	**0.32**				**0.53**			<0.21										
Carbazole	31	290	0.5	**0.20**				<0.21			<0.21										
Chrysene	84	780	1	**0.79**				**1.0**			<0.21										
Dibenz(a,h)anthracene	1	1	1	<0.20				<0.21			<0.21										
Fluoranthene	1,000	2,500	3.6	**1.7**				**2.3**			<0.21										
Fluorene	1,000	2,500	3.6	**0.3**				<0.21			<0.21										
Indeno(1,2,3-cd)pyrene	1	7.8	1	**0.36**				**0.65**			<0.21										
Naphthalene	1,000	2,500	3.6	**0.25**				<0.21			<0.21										
Phenanthrene	1,000	2,500	4	**1.9**				**1.5**			<0.21										
Pyrene	1,000	2,500	4	**1.6**				**1.8**			<0.21										
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.5																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	3.6																		
Fluorene	NE	NE	3.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	3.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500	**300**				**87**			**14**										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE					**2.3**			**2.5**	**2.6**									
Arsenic	10	10	NE					<2.0			<2.1	<2.0									
Barium	4,700	140,000	NE					**76**			**54**	**59**									
Beryllium	2	2	NE					**0.90**			<0.21	**0.28**									
Cadmium	34	1,000	NE					**0.35**			<0.21	<0.20									
Chromium	NE	NE	NE					**16**			**15**	**21**									
Copper	2,500	76,000	NE					**23**			**11**	**18**									
Lead	400	1,000	NE					**22**			**7.7**	**11**									
Mercury	20	610	NE					<0.03			<0.032	<0.031									
Nickel	1,400	7,500	NE					**15**			**10**	**17**									
Silver	340	10,000	NE					**0.65**			<0.41	**0.42**									
Vanadium	470	14,000	NE					**32**			**27**	**31**									
Zinc	20,000	610,000	NE					**50**			**27**	**49**									
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1,000																		
Beryllium	NE	NE	7																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**84.9**	**74.6**	**91.3**	**87.8**	**80.8**	**88.3**	**82.3**	**80.7**	**83.9**	**80.9**	**87.1**	**79.8**	**76.1**	**91.3**	**91.3**	**86.2**	**76.5**	**90.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-211C	B-212A	B-212B	B-212C	B-212D	B-212E	B-213A	DUP-1 Duplicate of B-213A	B-213B	B-213C	B-214A	B-214B	B-214C	B-215A	B-215B	B-215C	B-216A	B-216B
SAMPLE DEPTH (ft bgs)				7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	10.0-12.0	12.0-13.0	0-0.5	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	8.0-9.0	0-1.0	3.0-4.0
DATE SAMPLED				1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18	1/17/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554	1BA0554
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1221	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1232	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1242	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1248	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1254	NE	NE	NE	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	**0.24**
PCB 1260	NE	NE	NE	<0.096	**0.37**	**0.32**	<0.092	<0.10		**0.22**	**0.26**	<0.11	<0.10	**0.66**	<0.097	<0.094	**0.22**	**0.22**	<0.097	**0.29**	**0.32**
PCB 1262	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
PCB 1268	--	--	--	<0.096	<0.098	<0.091	<0.092	<0.10		<0.093	<0.098	<0.11	<0.10	<0.10	<0.097	<0.094	<0.092	<0.093	<0.097	<0.093	<0.091
Total PCBs	1	10	NE	<0.096	**0.37**	**0.32**	<0.092	<0.10		**0.22**	**0.26**	<0.11	<0.10	**0.66**	<0.097	<0.094	**0.22**	**0.22**	<0.097	**0.29**	**0.56**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS					BDL													
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4		<0.21			<0.22												<0.20	
Anthracene	1,000	2,500	40		<0.21			<0.22												<0.20	
Benzo(a)anthracene	1	7.8	1		<0.21			<0.22												<0.20	
Benzo(a)pyrene	1	1	1		<0.21			<0.22												<0.20	
Benzo(b)fluoranthene	1	7.8	1		**0.21**			<0.22												<0.20	
Benzo(g,h,i)perylene	8.4	78	1		<0.21			<0.22												<0.20	
Benzo(k)fluoranthene	8.4	78	1		<0.21			<0.22												<0.20	
Carbazole	31	290	0.5		<0.21			<0.22												<0.20	
Chrysene	84	780	1		<0.21			<0.22												<0.20	
Dibenz(a,h)anthracene	1	1	1		<0.21			<0.22												<0.20	
Fluoranthene	1,000	2,500	5.6		**0.34**			<0.22												<0.20	
Fluorene	1,000	2,500	5.6		<0.21			<0.22												<0.20	
Indeno(1,2,3-cd)pyrene	1	7.8	1		<0.21			<0.22												<0.20	
Naphthalene	1,000	2,500	5.6		<0.21			<0.22												<0.20	
Phenanthrene	1,000	2,500	4		<0.21			<0.22												<0.20	
Pyrene	1,000	2,500	4		**0.35**			<0.22												<0.20	
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.5																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	5.6																		
Fluorene	NE	NE	5.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500		**58**			<13												**40**	
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE		<2.0			<2.1	<2.0											<1.9	
Arsenic	10	10	NE		<2.0			<2.1	<2.0											<1.9	
Barium	4,700	140,000	NE		**93**			**68**	**64**											**87**	
Beryllium	2	2	NE		<0.20			<0.21	<0.20											<0.19	
Cadmium	34	1,000	NE		<0.20			<0.21	<0.20											<0.19	
Chromium	NE	NE	NE		**16**			**20**	**17**											**17**	
Copper	2,500	76,000	NE		**26**			**60**	**26**											**27**	
Lead	400	1,000	NE		**20**			**12**	**8.3**											**12**	
Mercury	20	610	NE		<0.029			<0.030	<0.030											<0.030	
Nickel	1,400	7,500	NE		**13**			**23**	**16**											**17**	
Silver	340	10,000	NE		<0.80			<0.84	<0.79											<0.39	
Vanadium	470	14,000	NE		**40**			**30**	**33**											**29**	
Zinc	20,000	610,000	NE		**44**			**56**	**40**											**42**	
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	3																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**83.4**	**81.9**	**87.5**	**84.3**	**78.9**	**84.5**	**83.1**	**81.1**	**73.5**	**80.4**	**78.7**	**80.8**	**83.0**	**82.8**	**85.0**	**81.6**	**85.2**	**86.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
= Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-216C	B-216D	B-216E	B-217A	B-217B	B-217C	B-218A	Dup-1/Duplicate of B-218A	B-218B	B-219A	B-219B	B-220A	B-220B	B-221A	Dup-2/Duplicate of B-221A	B-221B	B-222A	Dup-3/Duplicate of B-222A
SAMPLE DEPTH (ft bgs)				7.0-8.0	10.0-12.0	13.0-14.0	0-0.5	7.0-8.0	10.0-12.0	0-0.5	0-0.5	3.0-4.0	0-0.5	3.0-4.0	0-0.5	3.0-4.0	0-1.0	0-1.0	3.0-4.0	0-0.5	0-0.5
DATE SAMPLED				1/17/18	1/17/18	1/17/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18	3/8/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	18A0554	18A0554	18A0554	18C0362	18C0362	18C0363	18C0362	18C0363	18C0362	18C0362	18C0362	18C0362	18C0362	18C0362	18C0363	18C0362	18C0362	18C0363
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1221	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1232	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1242	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1248	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB-1254	NE	NE	NE	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	**0.43**
PCB-1260	NE	NE	NE	<0.087	<0.089		<0.089	<0.089	<0.093	**0.13**	<0.092	<0.089	<0.093	<0.089	<0.091	**3.1**	**0.22**		<0.087	**0.99**	**1.2**
PCB 1262	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
PCB 1268	--	--	--	<0.087	<0.089		<0.089	<0.089	<0.093	<0.089	<0.092	<0.089	<0.093	<0.089	<0.091	<0.46	<0.092		<0.087	<0.093	<0.17
Total PCBs	1	10	NE	<0.087	<0.089		<0.089	<0.089	<0.093	**0.13**	<0.092	<0.089	<0.093	<0.089	<0.091	**3.1**	**0.22**		<0.087	**0.99**	**1.63**
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS		BDL																
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4		<0.20												<0.20	<0.20			
Anthracene	1,000	2,500	40		<0.20												<0.20	<0.20			
Benzo(a)anthracene	1	7.8	1		<0.20												<0.20	**0.23**			
Benzo(a)pyrene	1	1	1		<0.20												<0.20	**0.27**			
Benzo(b)fluoranthene	1	7.8	1		<0.20												<0.20	**0.36**			
Benzo(g,h,i)perylene	8.4	78	1		<0.20												<0.20	**0.23**			
Benzo(k)fluoranthene	8.4	78	1		<0.20												<0.20	<0.20			
Carbazole	31	290	0.5		<0.20												<0.20	<0.20			
Chrysene	84	780	1		<0.20												<0.20	**0.28**			
Dibenz(a,h)anthracene	1	1	1		<0.20												<0.20	<0.20			
Fluoranthene	1,000	2,500	3.6		<0.20												**0.24**	**0.55**			
Fluorene	1,000	2,500	3.6		<0.20												<0.20	<0.20			
Indeno(1,2,3-cd)pyrene	1	7.8	1		<0.20												<0.20	**0.23**			
Naphthalene	1,000	2,500	3.6		<0.20												<0.20	<0.20			
Phenanthrene	1,000	2,500	4		<0.20												<0.20	**0.24**			
Pyrene	1,000	2,500	4		<0.20												**0.24**	**0.50**			
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.5																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	3.6																		
Fluorene	NE	NE	3.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	3.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500		<11																
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE		<1.9	**2.7**											<1.9				
Arsenic	10	10	NE		<1.9	<1.9											<1.9				
Barium	4,700	140,000	NE		**97**	**90**											**70**				
Beryllium	2	2,000	NE		<0.19	<0.19											**0.20**				
Cadmium	34	1,000	NE		<0.19	<0.19											**0.23**				
Chromium	NE	NE	NE		**20**	**23**											**14**				
Copper	2,500	76,000	NE		**90**	**88**											**27**				
Lead	400	1,000	NE		**9.7**	**12**											**13**				
Mercury	20	610	NE		<0.030	<0.030											<0.029				
Nickel	1,400	7,500	NE		**22**	**24**											**14**				
Silver	340	10,000	NE		<0.76	<0.75											<0.76				
Vanadium	470	14,000	NE		**32**	**31**											**40**				
Zinc	20,000	610,000	NE		**51**	**56**											**47**				
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	7																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**89.8**	**86.1**	**86.7**	**89.9**	**90.3**	**85.8**	**89.7**	**86.7**	**89.4**	**86**	**89.5**	**87.5**	**86.5**	**87**	**85.6**	**92.2**	**85.9**	**85.8**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-222B	B-223A	B-223B	Dup-4/Duplicate of B-223B	B-224A	B-224B	B-224C	B-225A	B-225B	B-225C	B-226A	Dup-5/Duplicate of B-226A	B-226B	B-227A	B-227B	B-228A	B-228B	B-228C
SAMPLE DEPTH (ft bgs)				3.0-4.0	0.0-0.5	3.0-4.0	3.0-4.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	3.0-4.0	7.0-8.0	0.0-0.5	0.0-0.5	3.0-4.0	0.0-0.5	3.0-4.0	0.0-0.5	3.0-4.0	7.0-8.0
DATE SAMPLED				3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16	3/8/16
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	16C0362	16C0362	16C0362	16C0363	16C0362	16C0362	16C0362	16C0362	16C0362	16C0362	16C0363	16C0363	16C0363	16C0363	16C0363	16C0362	16C0363	16C0363
PARAMETER (Units)[2]																					
PCBs by EPA Methods 3540/8082 (mg/kg)																					
PCB 1016	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1221	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1232	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1242	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1248	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	**0.99**	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1254	NE	NE	NE	<0.092	<0.096	<0.093		<0.094	<0.091	**0.18**	<0.095	**3.1**	<0.090	<0.092		<0.088	<0.094	<0.092	**0.10**	<0.094	<0.11
PCB 1260	NE	NE	NE	**0.094**	**0.14**	**0.28**		**0.15**	<0.091	**0.45**	**0.26**	**5.8**	<0.090	**0.12**		<0.088	**0.17**	<0.092	**0.63**	<0.094	<0.11
PCB 1262	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
PCB 1268	--	--	--	<0.092	<0.096	<0.093		<0.094	<0.091	<0.092	<0.095	<0.90	<0.090	<0.092		<0.088	<0.094	<0.092	<0.096	<0.094	<0.11
Total PCBs	1	10	NE	**0.094**	**0.14**	**0.28**		**0.15**	<0.091	**0.63**	**0.26**	**9.89**	<0.090	**0.12**		<0.088	**0.17**	<0.092	**0.73**	<0.094	<0.11
SPLP PCBs by EPA Methods 1312/8082A (ug/l)																					
PCB- 1260	NE	NE	0.5																		
Total PCBs	NE	NE	0.5																		
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS																		
SVOCs by EPA Method 8270 (mg/kg)																					
Acenaphthene	1,000	2,500	8.4			<0.20															
Anthracene	1,000	2,500	40			<0.20															
Benzo(a)anthracene	1	7.8	1			<0.20															
Benzo(a)pyrene	1	1	1			<0.20															
Benzo(b)fluoranthene	1	7.8	1			<0.20															
Benzo(g,h,i)perylene	8.4	78	1			<0.20															
Benzo(k)fluoranthene	8.4	78	1			<0.20															
Carbazole	31	290	0.5			<0.20															
Chrysene	84	780	1			<0.20															
Dibenz(a,h)anthracene	1	1	1			<0.20															
Fluoranthene	1,000	2,500	3.6			**0.26**															
Fluorene	1,000	2,500	3.6			<0.20															
Indeno(1,2,3-cd)pyrene	1	7.8	1			<0.20															
Naphthalene	1,000	2,500	5.6			<0.20															
Phenanthrene	1,000	2,500	4			<0.20															
Pyrene	1,000	2,500	4			**0.26**															
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)																					
Acenaphthene	NE	NE	8.4																		
Anthracene	NE	NE	40																		
Benzo(a)anthracene	NE	NE	1																		
Benzo(a)pyrene	NE	NE	1																		
Benzo(b)fluoranthene	NE	NE	1																		
Benzo(g,h,i)perylene	NE	NE	1																		
Benzo(k)fluoranthene	NE	NE	1																		
Carbazole	NE	NE	0.5																		
Chrysene	NE	NE	1																		
Dibenz(a,h)anthracene	NE	NE	1																		
Fluoranthene	NE	NE	3.6																		
Fluorene	NE	NE	3.6																		
Indeno(1,2,3-cd)pyrene	NE	NE	1																		
Naphthalene	NE	NE	5.6																		
Phenanthrene	NE	NE	4																		
Pyrene	NE	NE	4																		
ETPH by CT Method (mg/kg)	500	2,500	500			**66**	**350**				**34**										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]																		
Metals by EPA Methods 6010B or 7470 (mg/kg)																					
Antimony	27	8,200	NE								<1.9			<1.9	<1.9		<1.9				
Arsenic	10	10	NE								<1.9			**3.2**	<1.9		**2.4**				
Barium	4,700	140,000	NE								**40**			**120**	**60**		**93**				
Beryllium	2	1,000	NE								**0.21**			**0.49**	<0.19		**0.69**				
Cadmium	34	1,000	NE								<0.19			**0.26**	<0.19		**0.24**				
Chromium	NE	NE	NE								**14**			**16**	**14**		**15**				
Copper	2,500	76,000	NE								**19**			**34**	**42**		**26**				
Lead	400	1,000	NE								**13**			**19**	**11**		**20**				
Mercury	20	610	NE								<0.029			<0.03	<0.031		<0.03				
Nickel	1,400	7,500	NE								**12**			**15**	**18**		**21**				
Silver	340	10,000	NE								<0.77			<0.75	<0.77		<0.78				
Vanadium	470	14,000	NE								**28**			**32**	**34**		**33**				
Zinc	20,000	610,000	NE								**36**			**45**	**51**		**58**				
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)																					
Arsenic	NE	NE	50																		
Barium	NE	NE	1000																		
Beryllium	NE	NE	7																		
Cadmium	NE	NE	5																		
Copper	NE	NE	1300																		
Lead	NE	NE	15																		
Zinc	NE	NE	5000																		
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002																		
Total Solids (%)	NE	NE	NE	**86.5**	**83**	**85.8**	**87.1**	**84.8**	**88.2**	**86.9**	**84.5**	**88.9**	**89.3**	**86.9**	**83**	**90.5**	**84.9**	**86.9**	**83.3**	**85.3**	**74.5**

NOTES:
1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
= Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SETTLING BASIN
107 SELDEN STREET BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			B-229A	B-229B	B-229C	B-230A	B-230B	B-230C	B-231A	B-232A	B-232B	B-232C
SAMPLE DEPTH (ft bgs)				0-0.5	3.0-4.0	7.0-8.0	0-0.5	3.0-4.0	4.0-5.0	0-0.5	0-0.5	3.0-4.0	4.0-5.0
DATE SAMPLED				3/8/18	3/8/18	3/8/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18	3/16/18
WORK ORDER NO.	RES DEC	I/C DEC	GA PMC	18C0363	18C0363	18C0363	18C0699	18C0699	18C0699	18C0699	18C0699	18C0699	18C0699
PARAMETER (Units)[2]													
PCBs by EPA Methods 3540/8082 (mg/kg)													
PCB 1016	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1221	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1232	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1242	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1248	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1254	NE	NE	NE	<0.096	<0.094	<0.093	<0.093	**0.11**	<0.091	<0.11	<0.098	<0.089	<0.088
PCB-1260	NE	NE	NE	**0.47**	<0.094	<0.093	**0.31**	<0.094	<0.091	**0.49**	<0.098	**0.092**	<0.088
PCB 1262	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
PCB 1268	--	--	--	<0.096	<0.094	<0.093	<0.093	<0.094	<0.091	<0.11	<0.098	<0.089	<0.088
Total PCBs	1	10	NE	**0.47**	<0.094	<0.093	**0.31**	**0.11**	<0.091	**0.49**	<0.098	**0.092**	<0.088
SPLP PCBs by EPA Methods 1312/8082A (ug/l)													
PCB- 1260	NE	NE	0.5										
Total PCBs	NE	NE	0.5										
VOCs by EPA Method 8260 (mg/kg)	CS	CS	CS										
SVOCs by EPA Method 8270 (mg/kg)													
Acenaphthene	1,000	2,500	8.4										
Anthracene	1,000	2,500	40										
Benzo(a)anthracene	1	7.8	1										
Benzo(a)pyrene	1	1	1										
Benzo(b)fluoranthene	1	7.8	1										
Benzo(g,h,i)perylene	84	78	1										
Benzo(k)fluoranthene	84	78	1										
Carbazole	31	250	0.5										
Chrysene	84	780	1										
Dibenz(a,h)anthracene	1	1	1										
Fluoranthene	1,000	2,500	5.6										
Fluorene	1,000	2,500	5.6										
Indeno(1,2,3-cd)pyrene	1	7.8	1										
Naphthalene	1,000	2,500	5.6										
Phenanthrene	1,000	2,500	4										
Pyrene	1,000	2,500	4										
SPLP SVOCs by EPA Methods 1312/8270 (ug/L)													
Acenaphthene	NE	NE	8.4										
Anthracene	NE	NE	40										
Benzo(a)anthracene	NE	NE	1										
Benzo(a)pyrene	NE	NE	1										
Benzo(b)fluoranthene	NE	NE	1										
Benzo(g,h,i)perylene	NE	NE	1										
Benzo(k)fluoranthene	NE	NE	1										
Carbazole	NE	NE	0.5										
Chrysene	NE	NE	1										
Dibenz(a,h)anthracene	NE	NE	5.6										
Fluoranthene	NE	NE	2.5										
Indeno(1,2,3-cd)pyrene	NE	NE	1										
Naphthalene	NE	NE	5.6										
Phenanthrene	NE	NE	4										
Pyrene	NE	NE	4										
ETPH by CT Method (mg/kg)	500	2,500	500										
SPLP ETPH by EPA Method 1312 and CT Method (mg/L)	NE	NE	0.25 [4]										
Metals by EPA Methods 6010B or 7470 (mg/kg)													
Antimony	27	8,200	NE										
Arsenic	10	10	NE										
Barium	4,700	140,000	NE										
Beryllium	2	2	NE										
Cadmium	34	1,000	NE										
Chromium	NE	NE	NE										
Copper	2,500	76,000	NE										
Lead	400	1,000	NE										
Mercury	20	610	NE										
Nickel	1,400	7,500	NE										
Silver	340	10,000	NE										
Vanadium	470	14,000	NE										
Zinc	20,000	610,000	NE										
SPLP Total Metals by EPA Methods 1312/6010B (ug/L)													
Arsenic	NE	NE	50										
Barium	NE	NE	1000										
Beryllium	NE	NE	1										
Cadmium	NE	NE	5										
Copper	NE	NE	1300										
Lead	NE	NE	15										
Zinc	NE	NE	5000										
SPLP Mercury by EPA Methods 1312/7470A (mg/l)	NE	NE	0.002										
Total Solids (%)	NE	NE	NE	**83.6**	**85.3**	**86.3**	**85.9**	**82.3**	**88.2**	**75.6**	**80.1**	**89.4**	**88.2**

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. The site is located within a GA groundwater area.
4. Groundwater Protection Criteria listed for SPLP ETPH because no standard exists in the RSRs.

BOLD = compound detected at concentration listed
< = compound was not detected above reporting limit
Compound was not analyzed
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RES DEC = Residential Direct Exposure Criteria
NE = Not Established by DEEP
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

= Exceeds RDEC
= Exceeds RDEC and I/C DEC
= Exceeds GA PMC
= Exceeds GA PMC and RDEC
=Exceeds the RDEC, I/C DEC, and GA PMC
= Exceeds GWPC (ETPH only)
ug/L = micrograms per liter

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
SETTLING BASIN
107 SELDON STREET, BERLIN, CONNECTICUT

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS [1]			MW-1	MW-3	MW-4	MW-5	DUP-1/ Duplicate of MW-5	MW-6
DATE SAMPLED				2/2/18	2/2/18	2/2/18	2/2/18	2/2/18	2/2/18
WORK ORDER	SWPC	GWPC	I/C VOL.	18B0100	18B0100	18B0100	18B0100	18B0100	18B0100
PARAMETER (Units)									
Polychlorinated Biphenyls by EPA method 8082 (ug/L)									
Total PCBs	0.5	0.5	--	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Organic Compounds by EPA method 8260 (ug/L)	CS	CS	CS	BDL	BDL	BDL	BDL	BDL	BDL
Semivolatile Organic Compounds by EPA method 8270 (ug/L)	CS	CS	CS	BDL	BDL	BDL	BDL	BDL	BDL
Extractable Total Petroleum Hydrocarbons by CT method (mg/L)	0.25 [3]	NE	--	**0.14**	**0.15**		<0.077	<0.078	**0.11**
Total RCRA 15 Metals by EPA method 6010B/7470A (ug/L)									
Barium	2,200	1,000	--	**1100**	**870**	**530**	**650**	**680**	**2900**
Cadmium	6	5	--	**4.1**	**4.3**	<2.5	<2.5	<2.5	**5.6**
Copper	48	1,300	--	**48**	**60**	<25	<25	<25	67
Silver	12	36	--	**60**	**45**	<2.5	<2.5	<2.5	**29**
Zinc	123	5,000	--	**50**	**71**	<50	<50	<50	<50
Mercury	0.4	2	--	**0.13**	<0.10	<0.10	<0.10	<0.10	<0.10

NOTES:
1. Analytical results compared to applicable criteria from Connecticut Remediation Standard Regulation (RSR) Section 22a-133k-1 through -3, inclusive, (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes refer to laboratory report.
3. ETPH results compared to the SWCP because a GWPC is not in the RSRs.

-- = Not Applicable
mg/L = milligrams per liter
ug/L = micrograms per liter
BDL = Below Detection Limit
BOLD = Compound Detected at Reported Concentration
SWPC = Surface Water Protection Criteria
RES VOL. = Residential Volatilization Critera
I/C VOL. = Industrial/commercial Volatilization Critera
CS = Compound Specific

= Exceeds SWPC
= Exceeds GWPC
= Exceeds SWPC and GWPC
- Not Analyzed

FIGURES

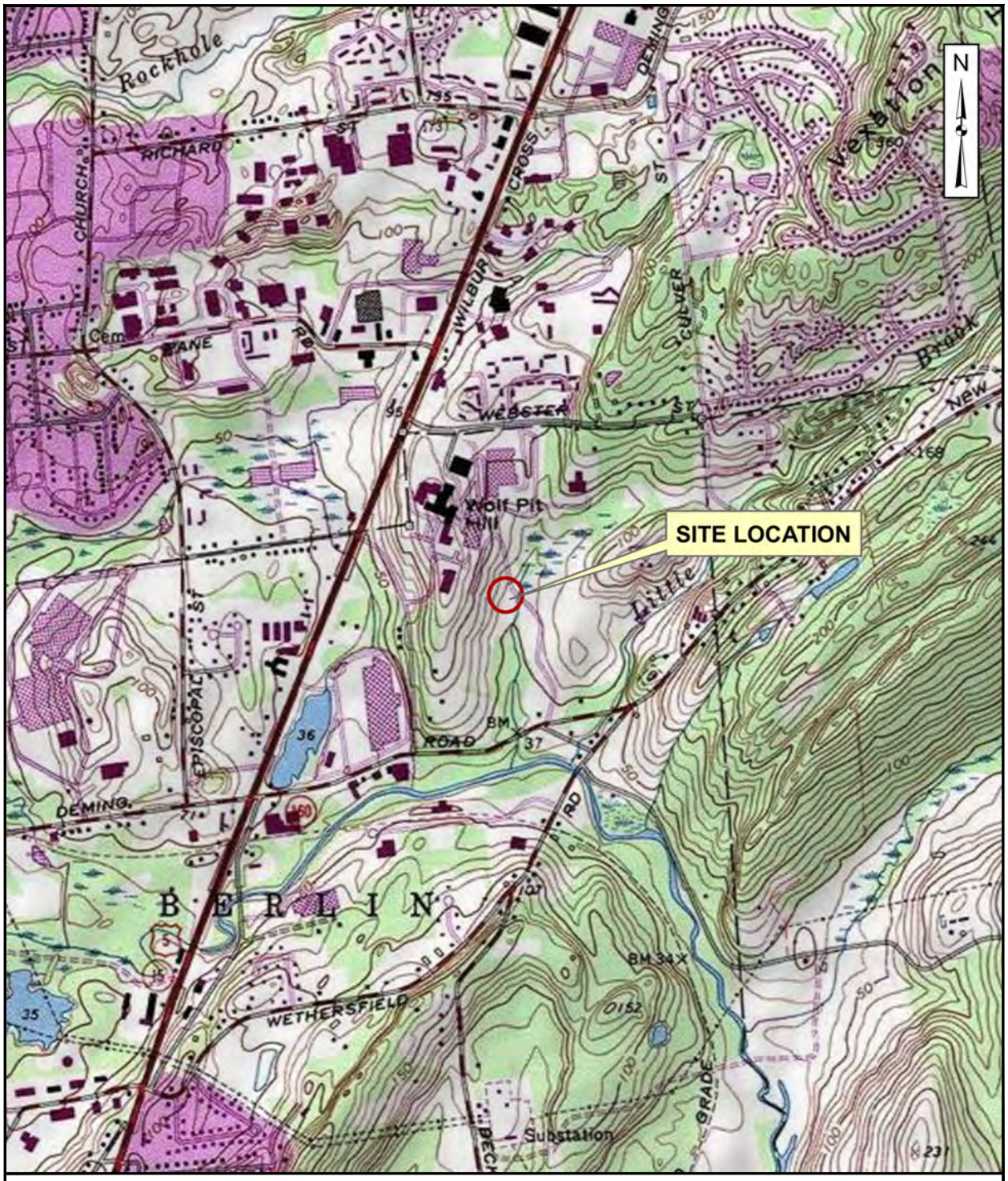

FIGURE 1
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND
LOCUS MAP
SCALE: 1"=2000'
0 2000 4000

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Weston & Sampson

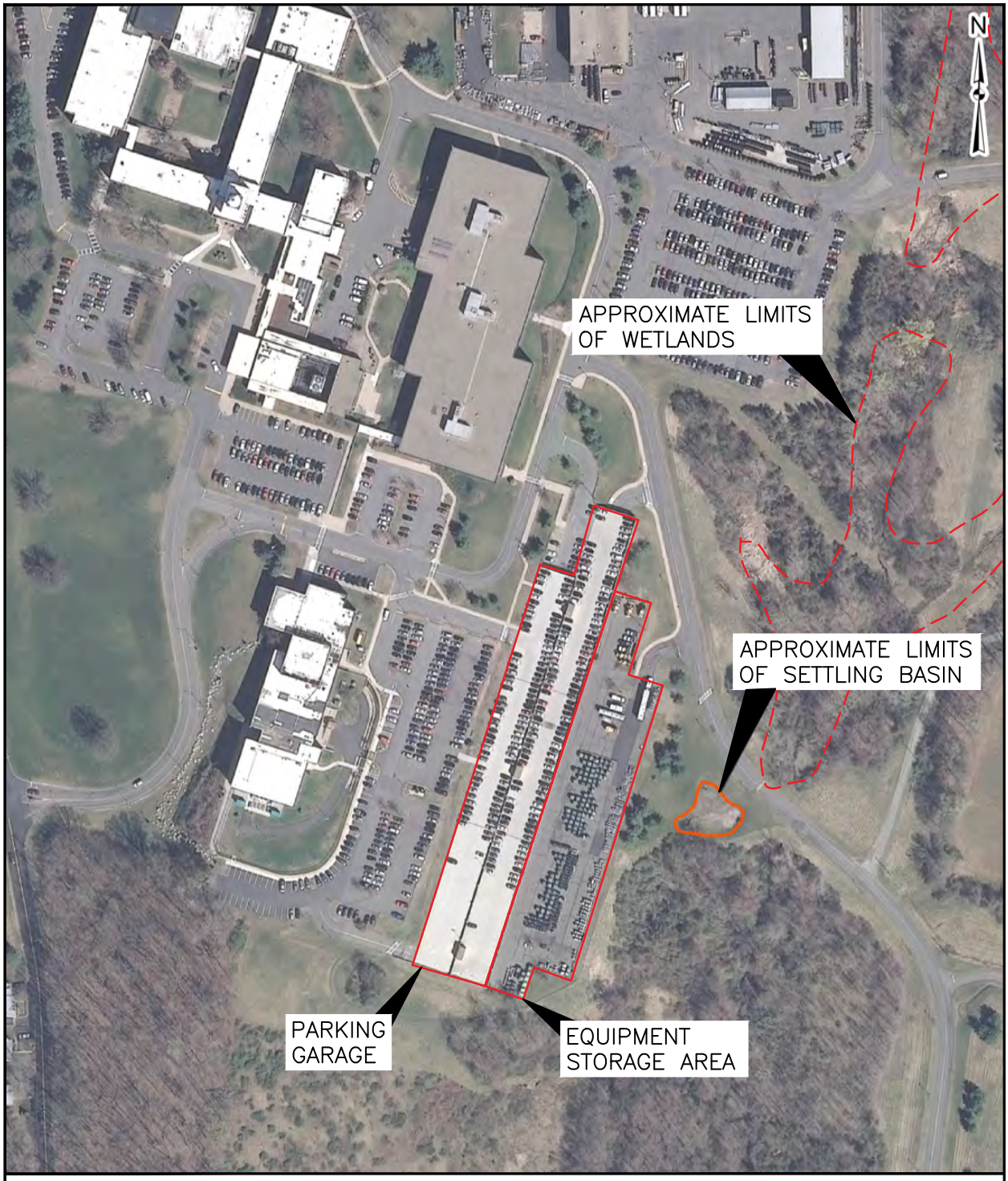

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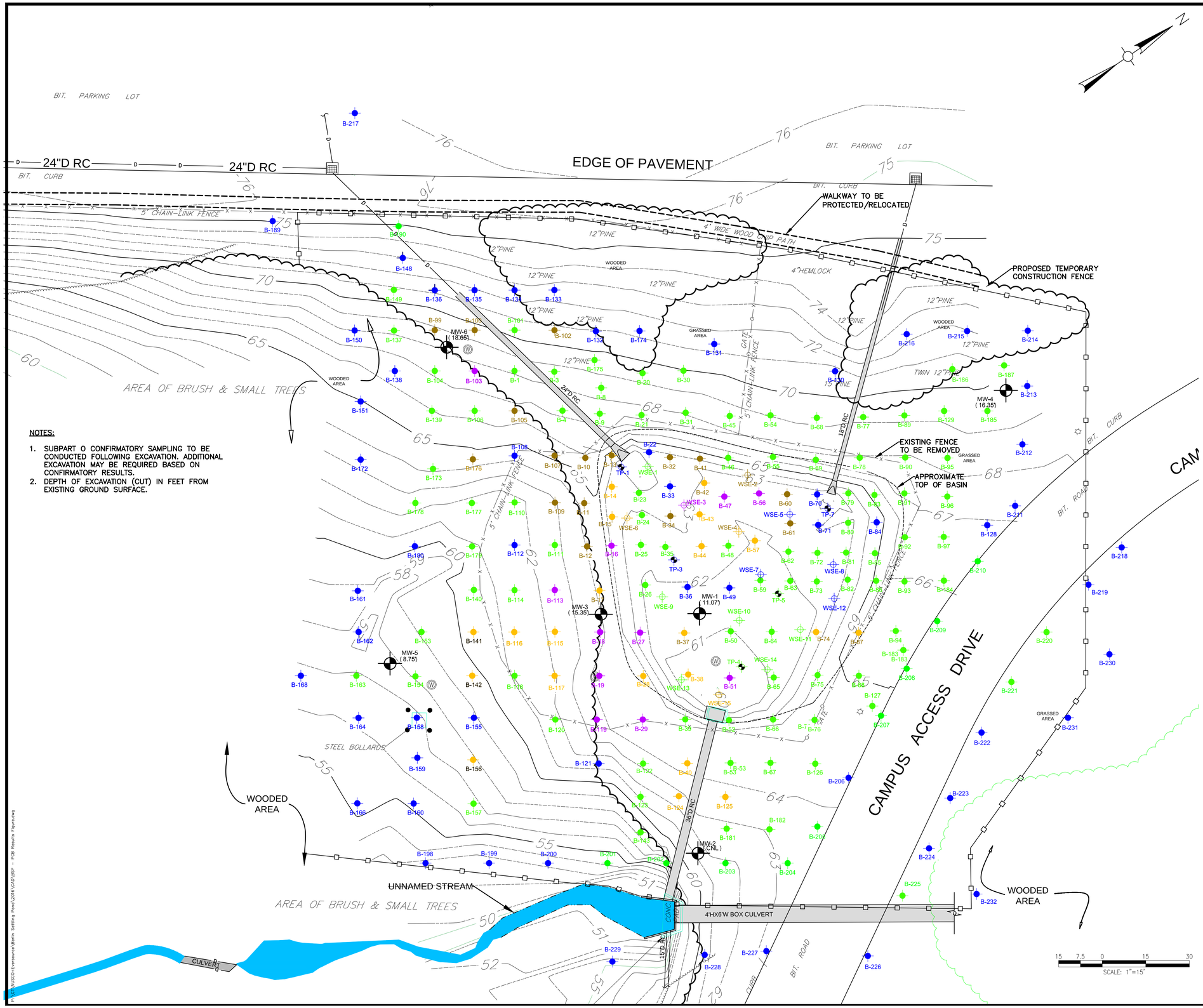
FIGURE 2
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN CAMPUS SETTLING POND

AERIAL SITE PLAN
SCALE: 1"=250'

0 250 500

NOTE: WETLAND BOUNDARIES WERE SOURCED FROM THE TOWN OF BERLIN, CT ONLINE GIS DATABASE





VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- TP-1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE-1 — SOIL BORING SAMPLE LOCATION (2010)
- MW-1 (10.00') — MONITORING WELL LOCATION – JULY 2015 – HIGHEST OBSERVED WATER TABLE. MEASURED FROM EXISTING GROUND SURFACE

- < 1.0 MG/KG PCBs
- < 10.0 MG/KG PCBs
- < 25.0 MG/KG PCBs
- < 50.0 MG/KG PCBs
- > 50.0 MG/KG PCBs

NOTES:

1. SUBPART O CONFIRMATORY SAMPLING TO BE CONDUCTED FOLLOWING EXCAVATION. ADDITIONAL EXCAVATION MAY BE REQUIRED BASED ON CONFIRMATORY RESULTS.
2. DEPTH OF EXCAVATION (CUT) IN FEET FROM EXISTING GROUND SURFACE.

SCALE: 1"=15'

FIGURE 3
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING POND
ADDITIONAL SITE INVESTIGATION:
PCB RESULTS

APRIL 2018 SCALE: 1" = 15'

Weston & Sampson

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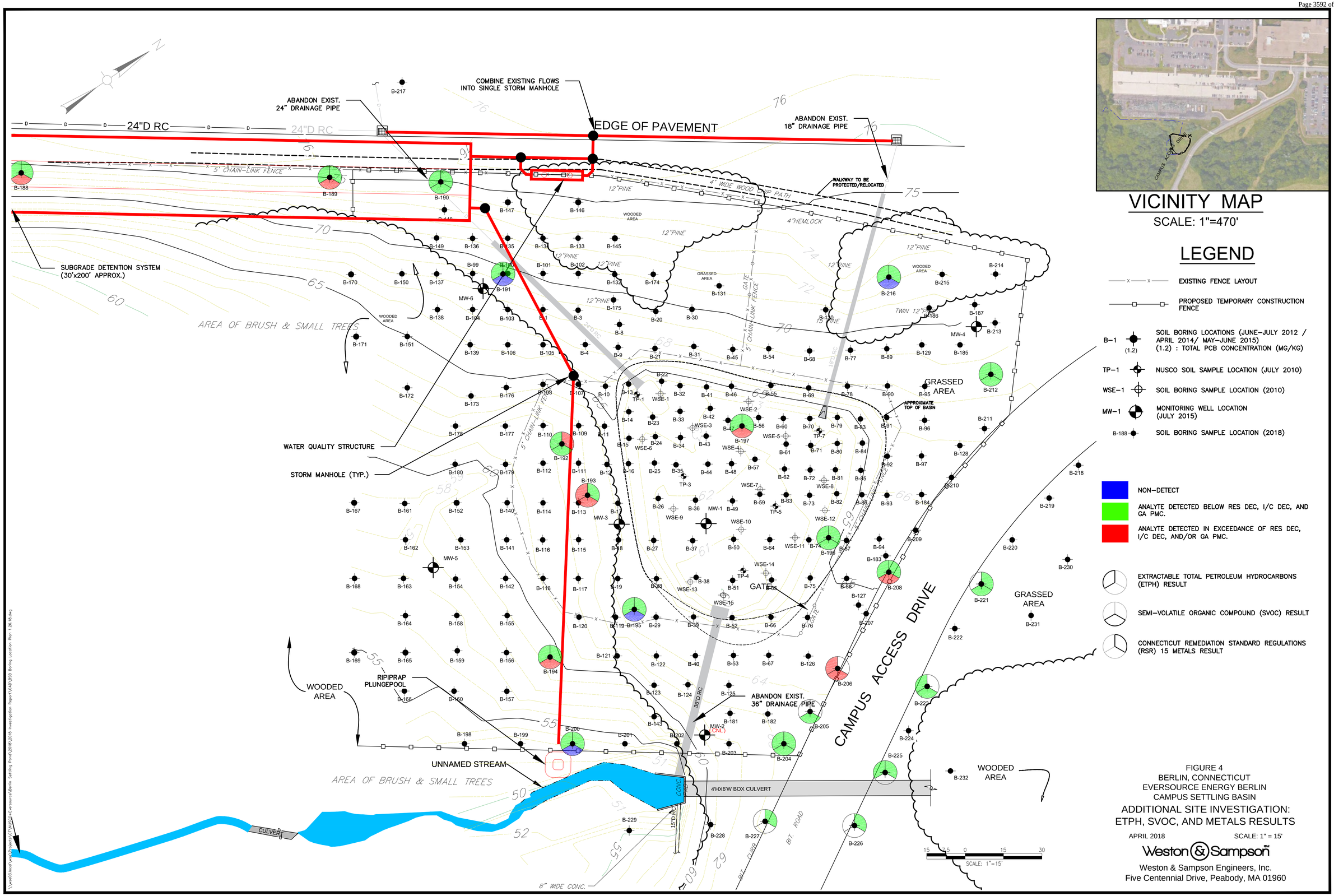

VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- B-1 (1.2) — SOIL BORING LOCATIONS (JUNE–JULY 2012 / APRIL 2014/ MAY–JUNE 2015) (1.2) : TOTAL PCB CONCENTRATION (MG/KG)
- TP-1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE-1 — SOIL BORING SAMPLE LOCATION (2010)
- MW-1 — MONITORING WELL LOCATION (JULY 2015)
- B-188 — SOIL BORING SAMPLE LOCATION (2018)

- NON–DETECT
- ANALYTE DETECTED BELOW RES DEC, I/C DEC, AND GA PMC.
- ANALYTE DETECTED IN EXCEEDANCE OF RES DEC, I/C DEC, AND/OR GA PMC.

- EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS (ETPH) RESULT
- SEMI–VOLATILE ORGANIC COMPOUND (SVOC) RESULT
- CONNECTICUT REMEDIATION STANDARD REGULATIONS (RSR) 15 METALS RESULT

FIGURE 4
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN

ADDITIONAL SITE INVESTIGATION: ETPH, SVOC, AND METALS RESULTS

APRIL 2018 SCALE: 1" = 15'

Weston & Sampson
Weston & Sampson Engineers, Inc.
Five Centennial Drive, Peabody, MA 01960

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VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- B-1 (1.2) — SOIL BORING LOCATIONS (JUNE–JULY 2012 / APRIL 2014/ MAY–JUNE 2015) (1.2) : TOTAL PCB CONCENTRATION (MG/KG)
- TP-1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE-1 — SOIL BORING SAMPLE LOCATION (2010)
- MW-1 — MONITORING WELL LOCATION (JULY 2015)
- B-188 (CNL) — SOIL BORING SAMPLE LOCATION (2018); MONITORING WELL COULD NOT BE LOCATED DURING 2017 GROUNDWATER SAMPLING EVENT

- NON–DETECT
- ANALYTE DETECTED BELOW I/C VOL, GWPC, AND SWPC.
- ANALYTE DETECTED IN EXCEEDANCE OF I/C VOL, GWPC, AND/OR SWPC.
- VOLATILE ORGANIC COMPOUND (VOC) RESULT
- SEMI–VOLATILE ORGANIC COMPOUND (SVOC) RESULT
- POLYCHLORINATED BIPHENYL (PCB) RESULT
- CONNECTICUT REMEDIATION STANDARD REGULATIONS (RSR) 15 METALS RESULT
- EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS RESULT

NOTE:

METALS CONCENTRATIONS AT MW–1 AND MW–3 EXCEED RES VOL. METALS CONCENTRATION AT MW–6 EXCEED SWPC.

FIGURE 5
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING BASIN

ADDITIONAL SITE INVESTIGATION:
GROUNDWATER SAMPLING RESULTS

FEBRUARY 2018 SCALE: 1" = 15'

Weston & Sampson

Weston & Sampson Engineers, Inc.
Five Centennial Drive, Peabody, MA 01960

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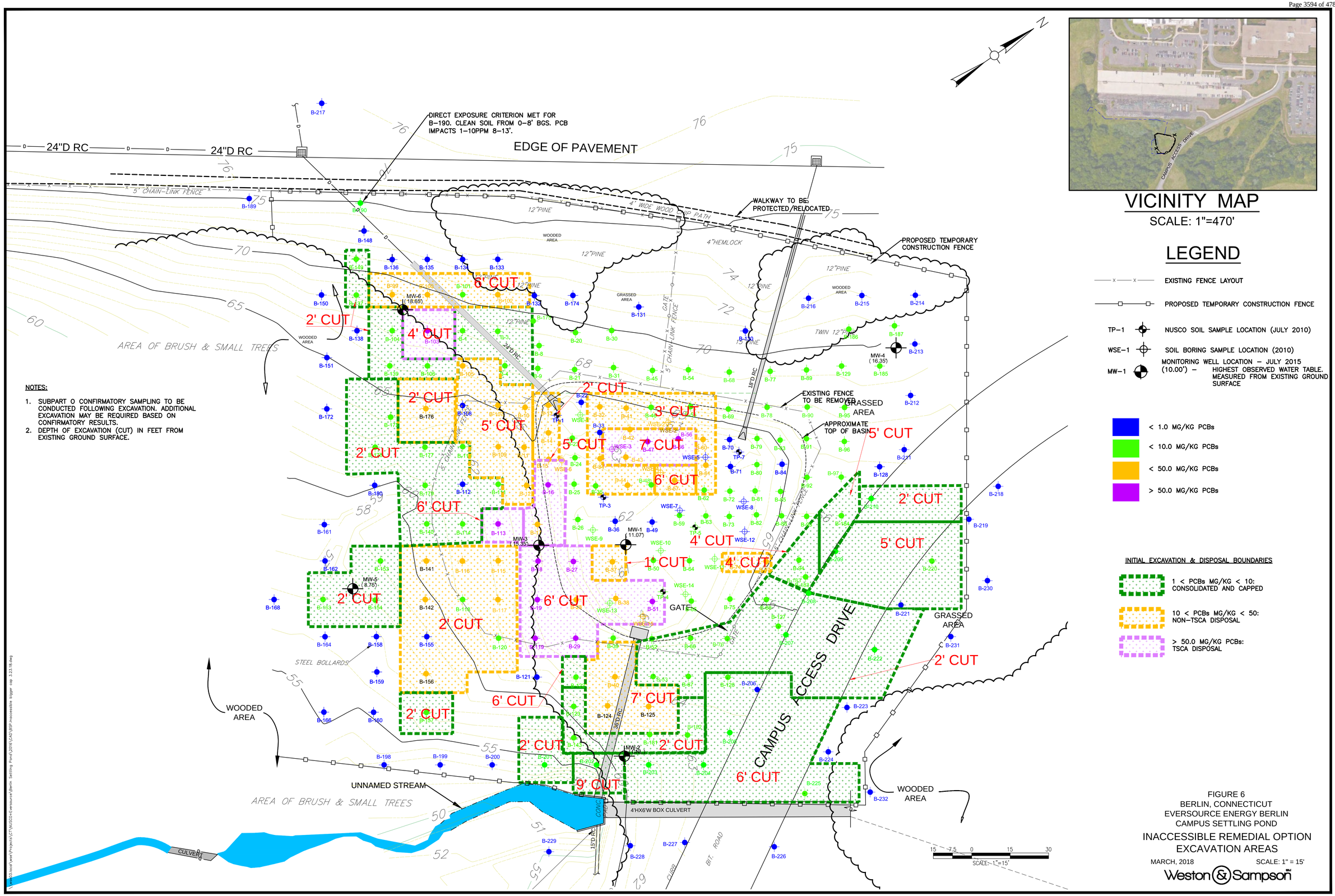

VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- TP-1 — NUSCO SOIL SAMPLE LOCATION (JULY 2010)
- WSE-1 — SOIL BORING SAMPLE LOCATION (2010)
- MW-1 (10.00') — MONITORING WELL LOCATION – JULY 2015 – HIGHEST OBSERVED WATER TABLE. MEASURED FROM EXISTING GROUND SURFACE

- < 1.0 MG/KG PCBs
- < 10.0 MG/KG PCBs
- < 50.0 MG/KG PCBs
- > 50.0 MG/KG PCBs

INITIAL EXCAVATION & DISPOSAL BOUNDARIES

- 1 < PCBs MG/KG < 10: CONSOLIDATED AND CAPPED
- 10 < PCBs MG/KG < 50: NON-TSCA DISPOSAL
- > 50.0 MG/KG PCBs: TSCA DISPOSAL

NOTES:

1. SUBPART O CONFIRMATORY SAMPLING TO BE CONDUCTED FOLLOWING EXCAVATION. ADDITIONAL EXCAVATION MAY BE REQUIRED BASED ON CONFIRMATORY RESULTS.
2. DEPTH OF EXCAVATION (CUT) IN FEET FROM EXISTING GROUND SURFACE.

FIGURE 6
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING POND
INACCESSIBLE REMEDIAL OPTION
EXCAVATION AREAS

MARCH, 2018 SCALE: 1" = 15'

Weston & Sampson

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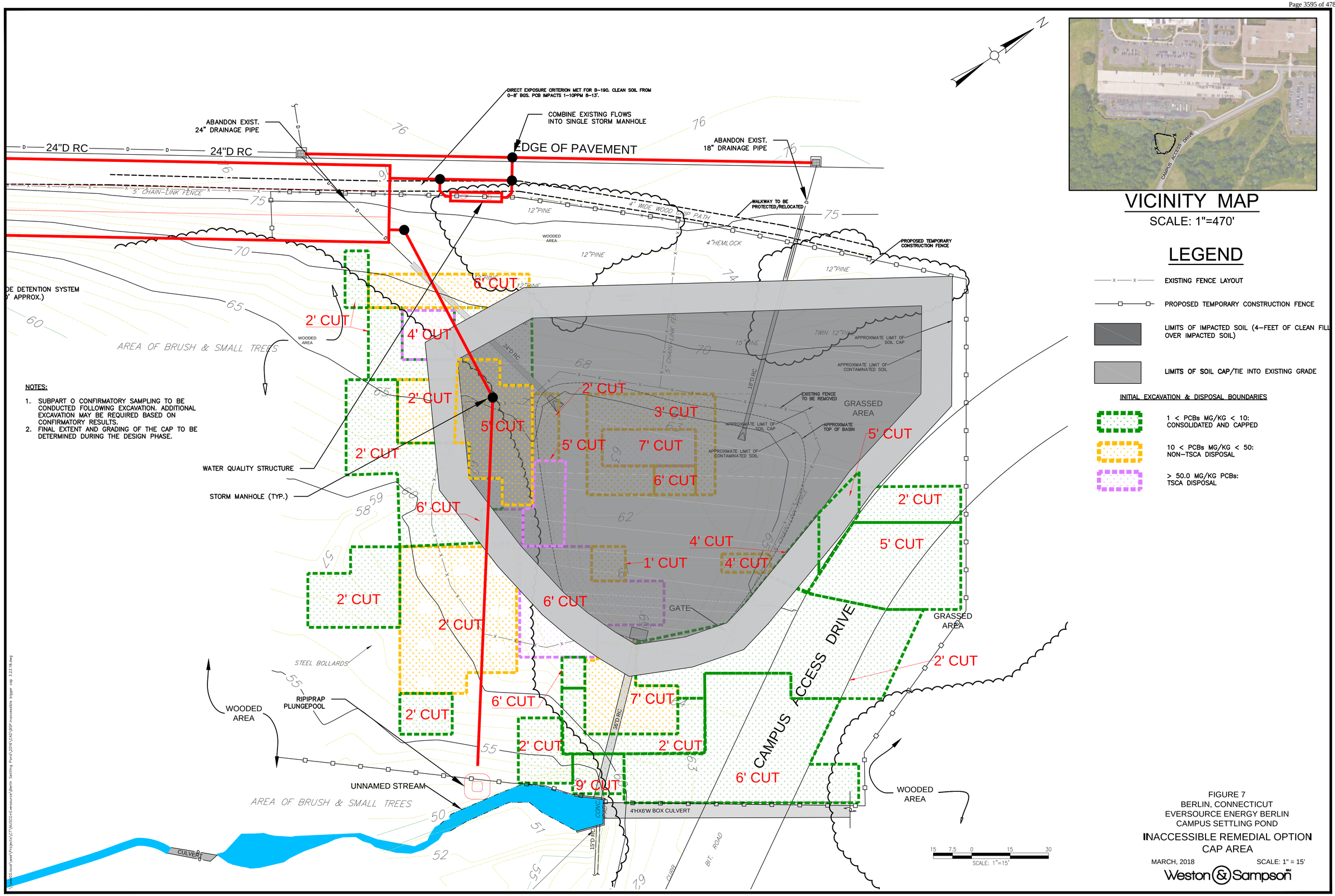

VICINITY MAP

SCALE: 1"=470'

LEGEND

- EXISTING FENCE LAYOUT
- PROPOSED TEMPORARY CONSTRUCTION FENCE
- LIMITS OF IMPACTED SOIL (4-FEET OF CLEAN FILL OVER IMPACTED SOIL)
- LIMITS OF SOIL CAP/TIE INTO EXISTING GRADE

INITIAL EXCAVATION & DISPOSAL BOUNDARIES

- 1 < PCBs MG/KG < 10: CONSOLIDATED AND CAPPED
- 10 < PCBs MG/KG < 50: NON-TSCA DISPOSAL
- > 50.0 MG/KG PCBs: TSCA DISPOSAL

NOTES:

1. SUBPART O CONFIRMATORY SAMPLING TO BE CONDUCTED FOLLOWING EXCAVATION. ADDITIONAL EXCAVATION MAY BE REQUIRED BASED ON CONFIRMATORY RESULTS.
2. FINAL EXTENT AND GRADING OF THE CAP TO BE DETERMINED DURING THE DESIGN PHASE.

FIGURE 7
BERLIN, CONNECTICUT
EVERSOURCE ENERGY BERLIN
CAMPUS SETTLING POND

INACCESSIBLE REMEDIAL OPTION
CAP AREA

MARCH, 2018 SCALE: 1" = 15'

Weston & Sampson

\\ma03.local\vea\Projects\CT\WS020+Eversource\Berlin Settling Pond\2018\CAD\EBP-Inaccessible bigger cap 3.23.18.dwg

APPENDIX A

SOIL BORING LOGS

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-188

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		24/60		0	Moist	0-5' FILL Dark brown/reddish SILT, some fine dark brown/reddish sand, trace gravel, at 3' possible wood ash		Took sample to analyze fro ETPH/ PAHs
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		31/60		0	Moist	5-10' FILL dark brown/reddish SILT, some fine dark brown/reddish sand, some gravel, trace clay.		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		38/60		0	Moist	10-15' FILL dark brown/reddish SILT, some fine dark brown/reddish sand, some gravel, trace clay.		
				0	Moist	At 12-13' possible wood ash		
				0	Moist	12.5' brick		
				0	Moist	At 13.5 possible asphalt		
15				0	Wet	EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:			
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 15'

NOTES:
B-188A - (0-0.5) - PCB, ETPH, SVOC, Metals. (MS/MSD)
B-188B - (3-4') - PCB
B-188C - (7-8') - PCB
B-188D - (10-11') - Metals (DUP-7)
B-188E - (13-15') - PCB, ETPH, SVOC, Metals

BORING No. B-188

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-189

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		40/60		0	Moist	0-5' FILL dark brown/reddish SILT, some fine dark brown/red sand. Trace gravel, moist. Possible asphalt 0-2 ft		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		43/60		0	Moist	5-10' FILL dark brown/reddish SILT, some fine dark brown/red sand. Trace gravel, moist.		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		50/60		0	Moist	10-15' dark brown/red fine SAND with dark brown/red silt, trace gravel.		
				0	Moist			
				0	Moist			
				0	Moist			
15				0	Moist			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	NA		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

Did not hit GW

NOTES:
B-189A - (0-0.5') - PCB, SVOC, ETPH, METALS (MS/MSD METALS)
B-189B - (3-4') - PCB
B-189C - (7-8') - PCB
B-189D - (10-12') - PCB, SVOC, ETPH, METALS, VOC
B-189E - (13-14') - METALS

BORING No. B-189

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-190

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		46/60		0	Moist	0-5' FILL dark brown/red SILT with fine to medium dark brown/red sand. Possible asphalt at 1.5' and 4.5'. Trace gravel. Moist, no stains/odors		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		43/60		0	Moist	5-10' FILL dark brown/red SILT with fine to medium dark brown/red sand. Trace gravel. Moist, no stains/odors		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		49/60		0	Moist	10-15' dark brown/red fine to medium SAND with red dark/brown silt. Some gravel		
				0	Moist			
				0	Moist			
				0	Moist			
15				0	Moist			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	NA			
Well Installed	Yes		No	
Screen Interval		to		

REMARKS:

Did not hit GW

NOTES:

B-190A - (0-0.5') - PCB, SVOC, ETPH, METALS (DUP-5)
B-190B - (3-4') - PCB (MS/MSD)
B-190C - (7-8') - PCB
B-190D - (10-12') - PCB, SVOC, ETPH, METALS, VOC (MS/MSD VOCS)
B-190E - (13-14') - METALS

BORING No. B-190

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-191
Berlin Settling Pond Berlin CT Eversource	SHEET	1 OF 1
	Project No.	
	CHKD BY	WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		28/60		0	dry	0-5' FILL dark brown/reddish SILT, trace fine reddish dark brown sand, trace gravel, dry		
				0	dry			
				0	dry			
				0	dry			
5				0	dry			
		34/60		0	moist	5-10' dark brown/reddish SILT with dark brown reddish fine to medium sand. Trace gravel, some black (possible asphalt) around 9.5		
				0	moist			
				0	moist			
				0	moist			
10				0	moist			
		42/60		0	moist	10-15' red/dark brown fine to medium SAND with red/dark brown silt, trace gravel.		
				0	moist			
				0	moist			
				0	moist			
15				0	moist			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	NA			**REMARKS:**
Well Installed	Yes		No	No GW
Screen Interval		to		

NOTES:
B-191A (0-0.5') - SVOC, ETPH, METALS (MS/MSD)
B-191B - (10-12') - SVOC, ETPH, METALS, VOCS (DUP-3)
B-191C - (13-14') - METALS (DUP-4)

BORING No. B-191

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-192

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION (Burmister Classification)	Contact Interval	Sample Details
		44/60		0	Moist			
				0	Moist	0-4' 9" FILL dark brown/reddish SILT, trace dark brown/reddish sand, trace gravel, moist. No Stains/odors		
				0	Moist			
				0	Moist			
5				0	Moist	4' 9" - 6.5' light brown fine to medium coarse SAND, trace gravel, moist, no stains/odors		
		31/60		0	Moist			
				0	Moist			
				0	Moist	6.5-10' FILL dark brown/reddish SILT, trace dark brown/reddish sand, some gravel, moist, no stains/odors		
				0	Moist			
10				0	Wet			
		37/60		0	Wet	10-11' reddish dark brown fine to medium SAND, with reddish dark brown silt, trace gravel, wet		
				0	Wet			
				0	Wet	11-15' reddish dark-brown SILT, some fine reddish dark-brown sand, trace gravel		
				0	Wet			
15				0	Wet	At 13.5' color is black but same material		
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	10'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 10'

NOTES:
B-192A (0-0.5') - SVOC, ETPH, METALS
B-192B - (10-12') - SVOC, ETPH, METALS, VOCS
B-192C - (13-14') - METALS

BORING No. B-192

Weston & Sampson

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-193

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		30/60		0	Moist	0-5' FILL dark brown reddish SILT, trace dark brown reddish fine sand. Trace gravel, at 2' possible asphalt, moist, no stains/odors		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		32/60		0	Moist	5-8' light brown fine to medium coarse SAND, trace gravel		
				0	Moist			
				0	Moist			
				0	Moist	8-10' dark brown/reddish SILT, some gravel, trace dark brown/reddish fine sand, moist, no stains/odors		
10				0	Moist			
		36/60		0	Moist			
				0	Moist			
				0	Moist	10-15' dark brown/reddish SILT, some gravel, some dark brown/reddish fine sand.		
				0	Moist			
15				0	Moist			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	NA		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

Did not find GW

NOTES:
B-193A - (0-0.5') - SVOC, ETPH, METALS
B-193B - (10-12') - SVOC, ETPH, METALS, VOCS
B-193C - (13-14') - METALS

BORING No. B-193

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-194

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		27/60		0	Moist	0-5' FILL dark brown SILT with fine to medium dark brown sand, trave gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		25/60		0	Moist	5-10' dark brown/reddish fine SAND, with dark brown/reddish silt, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Wet			
		48/60		0	Wet	10-15' dark brown/reddish fine to medium SAND with dark brown/red silt, some gravel		
				0	Wet			
				0	Wet			
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	10'			REMARKS: GW at 10'
Well Installed	Yes		No	
Screen Interval		to		

NOTES:
B-194A - (0-0.5') - SVOC, ETPH, METALS
B-194B - (10-12') - SVOC, ETPH, METALS, VOCS
B-194C - (13-14') - METALS

BORING No. B-194

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-195
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START	DATE END

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		38/60		0	Moist			
				0	Moist			
				0	Moist			
				0	Moist	0-8' FILL dark brown reddish SILT, trace dark brown reddish fine sand, trace gravel, trace clay, moist, no stains/odors		
5				0	Moist			
		26/60		0	Moist			
				0	Moist			
				0	Moist			
				0	Moist	8-10' light brown fine to medium coarse SAND, trace gravel, moist, no stains/odors		
10				0	Moist			
		25/60		0	Wet			
				0	Wet			
				0	Wet	10-15' FILL dark brown reddish SILT, trace dark brown reddish fine sand, trace gravel, trace clay, wet, no stains/odors. Grey gravel at 14'		
				0	Wet			
15				0	Wet			
						EOB 10'		
20								
25								
30								
35								

Depth to Groundwater:	10'			REMARKS:
Well Installed	Yes		No	GW at 10'
Screen Interval		to		

NOTES:
B-195A - (0-0.5') - SVOC, ETPH, METALS
B-195B - (10-12') - SVOC, ETPH, METALS, VOCS
B-195C - (13-14') - METALS

BORING No. B-195

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-196

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		25/60		0	Moist	0-5' FILL dark brown/reddish SILT, some dark brown/reddsih fine to medium sand, trace gravel, trace red clay, moist, no stains/odors		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		37/60		0	Moist	5-10' FILL dark brown/reddish SILT with dark brown/reddish fine sand, trace red clay, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		20/60		0	Moist	10-15' FILL dark brown/reddish SILT with dark brown/reddish fine sand, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
15				0	Moist			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater: NA

Well Installed: Yes / No

Screen Interval: to

REMARKS: Did not hit GW

NOTES:
B-196A - (0-0.5') - SVOC, ETPH, METALS
B-196B - (9-11') - SVOC, ETPH, METALS, VOCS
B-196C - (13-14') - METALS

BORING No. B-196

Weston & Sampson

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-197

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		32/60		0	Moist	0-5' FILL dark brown reddish SILT, some fine to medium dark brown/reddish sand, trace gravel, trace red clay, moist		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		34/60		0	Moist	5-10' FILL dark brown reddish SILT, some fine to medium coarse dark brown/reddish sand, trace gravel, trace red clay, moist		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		40/60		0	Wet	10-15' FILL dark brown/reddish SILT, with dark brown/reddish fine to medium sand, some gravel, wet. No stains/odors		
				0	Wet			
				0	Wet			
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater: 10.5'

Well Installed: Yes / No

Screen Interval: to

REMARKS:

GW at 10.5'

NOTES:
B-197A - (0-0.5') - SVOC, ETPH, METALS
B-197B - (10-12') - SVOC, ETPH, METALS, VOCS
B-197C - (13-14') - METALS

BORING No. B-197

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-198

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18
SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	10'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		34/60		0	Moist	0-5' FILL dark brown/reddish SILT, some fine to medium dark brown/reddish sand. Some gravel, possible asphalt around 3', moist		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		46/60		0	Wet			
				0	Wet			
				0	Wet	5-10' FILL dark brown/red fine SAND with dark brown/red silt. Wet.		
				0	Wet			
10				0	Wet			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	5'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 5'

NOTES:
B-198A - (0-0.5') - PCBS
B-198B - (3-4') - PCBS (DUP-6)
B-198C - (7-8') - PCBS

BORING No. B-198

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-199

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		36/60		0	Moist	0-5' FILL dark brown/reddish SILT with fine dark brown/reddish sand. Trace gravel, moist, at 3.5' black sand, silt, and brick chunks		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		42/60		0	Wet			
				0	Wet			
				0	Wet	5-10' FILL dark brown/reddish fine SAND with sil, wet. No stains/odor		
				0	Wet			
10				0	Wet			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	5'			REMARKS:
Well Installed	Yes		No	GW at 5'
Screen Interval		to		

NOTES:
B-199A - (0-0.5') - PCBS
B-199B - (3-4') - PCBS
B-199C - (7-8') - PCBS

BORING No. B-199

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-200

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/19/18	DATE END 1/19/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		37/60		0	Moist	0-5' FILL dark brown/reddish SILT, trace fine to medium dark brown/reddish sand. Trace gravel		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		38/60		0	Wet			
				0	Wet			
				0	Wet	5-10' reddish/dark brown SILT, trace gravel, trace fine red sand		
				0	Wet			
10				0	Wet			
		27/60		0	Wet			
				0	Wet			
				0	Wet	10-15' reddish/dark brown SILT, trace gravel, trace fine red sand		
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	5'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 5'

NOTES:
B-200A - (0-0.5') - PCB, SVOC, ETPH, METALS
B-200B - (3-4') - PCB
B-200C - (5-7') - PCB, SVOC, ETPH, VOCS, METALS
B-200D - (7-8') - PCB,
B-200E - (13-14') - METALS

BORING No. B-200

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-201

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		44/60		0	Moist			
				0	Moist			
				0	Moist	0-3' FILL dark brown/reddish SILT trace dark brown red fine sand, trace gravel		
				0	Moist			
5				0	Moist	3-5' FILL dark brown/black fine to medium sand, some silt, trace gravel		
		28/60		0	Moist			
				0	Moist			
				0	Moist			
				0	Moist	5-10' FILL dark brown/reddish SILT, some gravel, trace clay, trace dark brown/reddish fine sand.		
10				0	Wet			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	9'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 9'

NOTES:
B-201A - (0-0.5') - PCBS
B-201B - (3-4') - PCBS
B-201C - (7-8') - PCBS

BORING No. B-201

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-202

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		47/60		0	Moist	0-5' FILL dark brown/reddish SILT, some dark brown/reddish fine sand, trace gravel, mois.		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		17/60		0	Moist			
				0	Moist	5-10' FILL dark brown-reddish SILT, trace dark brown reddish fine sand, some gravel, trace claY, insulator porcelin at around 9'		
				0	Moist			
				0	Moist			
10				0	Moist			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	NA		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

Did not find GW.

NOTES:
B-202A - (0-0.5') - PCBS
B-202B - (3-4') - PCBS
B-202C - (7-8') - PCBS

BORING No. B-202

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-203

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		46/60		0	Moist			
				0	Moist	0-5' FILL dark reddish brown SILT, some gravel, trace dark reddish brown fine sand, at 4.5' black material (possible pulverized asphalt)		
				0	Moist			
				0	Moist			
5				0	Moist			
		39/60		0	Moist			
				0	Moist	5-8' FILL dark reddish brown SILT, some reddish brown fine sand, trace gravel, moist		
				0	Moist			
				0	Moist	8-10' dark-reddish brown SILT, some reddish brown fine sand, trace clay, moist		
10				0	Moist			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	NA		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

Did not find GW

NOTES:
B-203A - (0-0.5') - PCBS
B-203B - (3-4') - PCBS
B-203C - (7-8') - PCBS

BORING No. B-203

Weston & Sampson

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-204

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/18/18	DATE END 1/18/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 15'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		44/60		0	Moist	0-5' FILL dark-reddish brown SILT with dark brown fine to medium sand, some gravel, pulverized rock at 4', moist		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		22/60		0	Moist	5-10' FILL dark-reddish brown SILT, some gravel, trace dark brown fine sand. Possible asphalt around 7'		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		18/60		0	Wet	10-15' darkbrown- reddish SILT, some fine dark-brown reddish sand. Some gravel, wet. No stains/odors		
				0	Wet			
				0	Wet			
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	10.5'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 10.5'

NOTES:
B-204A - (0-0.5') - PCB, SVOC, ETPH, METALS
B-204B - (3-4') - PCB
B-204C - (7-8') - PCB
B-204D - (10-12') - PCB, SVOC, ETPH, METALS VOC
B-204E - (13-14') - METALS

BORING No. B-204

Weston & Sampson

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-205

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		30/60		0.9	Moist	0-5' FILL reddish-dark brown SILT, some reddish-dark brown fine to medium sand, trace gravel, trace clay, possible asphalt 2.5-4' moist, no stains/odors		
				2	Moist			
				3	Moist			
				4	Moist			
5				40	Moist			
		35/60		40	Moist	5-10' hit rock so offset to get better recovery		
				0	Moist	5-9' FILL reddish/dark brown fine to medium sand, some silt		
				0	Moist			
				0	Moist	9-10' FILL reddish/dark brown fine to medium sand, some silt, trace clay		
10				0	Moist	Staining from 5.5-10'		
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater: NA

Well Installed: Yes / No

Screen Interval: to

REMARKS:

When offset 0-5 had creolsote smell at 4.5, took sample to submit for PCBs & SVOCs. No GW encountered.

NOTES:

B-205A - (0-0.5') - PCBS
B-205B - (4-5') - PCBS, SVOCS
B-205C - (7-8') - PCBS

BORING No. B-205

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-206
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	1/17/2018
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		55/60		0	Moist	0-5' FILL dark brown/reddish SILT, some gravel, trace fine to medium sand. From 4-5' wood (possible old training pole) with creolsote smell. 3-5' shiny black material, possible asphalt scattered		
				0	Moist			
				40	Moist			
				40	Moist			
5				40	Moist			
		28/60		0	Moist	5-8' FILL light brown fine to medium coarse SAND, some gravel		
				0	Moist			
				0	Moist	8-8.5' wood (possible old triaining pole) with creolsole smell		
				0	Moist			
10				0	Moist	8.5-10' reddish/dark brown SILT, trace clary, trace gravel		
15								
20								
25								
30								
35								

Depth to Groundwater:		NA		REMARKS:
Well Installed	Yes		No	Did not find GW
Screen Interval		to		

NOTES:
B-206A - (0-0.5') - PCBS
B-206B - (3-4') - PCBS, ETPH, SVOC
B-206C - (7-8') - PCBS, ETPH, SVOC

BORING No. B-206

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-207

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1450 1/17/18	DATE END 1/17/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION (Burmister Classification)	Contact Interval	Sample Details
		24/60		0	Moist	0-2' FILL reddish/brown medium to coarse SAND and silt		
				0	Moist			
				0	Moist	2-3' FILL reddish/brown medium to coarse SAND and silt, trace asphalt/gravel		
				0	Moist			
5				0	Moist	3-5' reddish/dark brown medium to coarse SAND, trace silt, trace gravel		
		20/60		0	Moist	5-6' reddish/dark brown fine to medium coarse SAND, moist		
				0	Wet	6-7' reddish/dark brown fine SAND with silt, trace gravel, trace clay,wet		
				0	Wet			
				0	Wet	7-9' reddish/dark brown SAND, some silt, trace gravel		
10				0	Wet			
						9-10' reddish/dark brown SILT, some clay, trace gravel		
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	6'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW at 6'

NOTES:
B-207A - (0-0.5') - PCBS
B-207B - (3-4') - PCBS
B-207C - (7-8') - PCBS

BORING No. B-207

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-208

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18
SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		47/60		0	Moist			
				0	Moist	0-2' FILL dark-brown SILT, fine to medium dark-brown sand, trace gravel		
				0	Moist	2-4.5' FILL dark-brown reddish SILT, some clay, trace gravel, possible asphalt at around 3'		
				0	Moist			
5				0	Moist	4.5-5' FILL dark brown/reddish SILT, some brown fine to med-coarse sand, trace clay, trace gravel		
		32/60		0	Moist			
				0	Moist	5-5.5' FILL brown fine to medium-coarse SAND, tace silt, moist		
				0	Moist	5.5-10' FILL dark-brown/reddish SILT, some clay, trace gravel, possible asphalt around 6.5' moist		
				0	Moist			
10				0	Moist			
		48/60		0	Wet			
				0	Wet	10-12' reddish dark brown SILTY clay		
				0	Wet	12-14' reddish dark brown SILT, trace fine dark brown sand, trace gravel, trace clay		
				0	Wet			
15				0	Wet			
						14-15' FILL reddish dark brown SILT, some gravel, moist		
						EOB 10'		
20								
25								
30								
35								

Depth to Groundwater:	10.5'			REMARKS:
Well Installed	Yes		No	GW at 10.5'
Screen Interval		to		

NOTES:
B-208A - (0-0.5') - PCB, SVOC, ETPH, METALS
B-208B - (3-4') - PCB
B-208C - (7-8') - PCB
B-208D - (10-12') - PCB, SVOC, ETPH, METALS VOC
B-208E - (13-14') - METALS

BORING No. B-208

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-209
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	10
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		34/60		0	Moist	0-1' FILL dark-brown SILT with fine to medium dark-brown reddish sand, moist		
				0	Moist			
				0	Moist			
				0	Moist	1-5' FILL reddish-dark brown SILT, some clay, trace gravel, moist		
5				0	Moist			
		56/60		0	Moist	5-6.5' dark brown SILT, some dark brown reddish fine to medium sand, moist		
				0	Moist			
				0	Wet	6.5-8.5' reddish brown SILT, some reddish clay		
				0	Wet			
10				0	Wet	8.5-10' reddish brown SILT with rine reddish dark-brown sand.		
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	8'	REMARKS:		
Well Installed	Yes		No	GW interface at 8'
Screen Interval		to		

NOTES:
B-209A - (0-0.5') - PCBS
B-209B - (3-4') - PCBS
B-209C - (7-8') - PCBS

BORING No. B-209

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-210
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	10'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		36/60		0	Moist	0-2' FILL dark brown-reddish SAND and SILT.		
				0	Moist			
				0	Moist			
				0	Moist	2-4' FILL dark brown-reddish SILT, some clay, trace reddish sand, trace gravel		
5				0	Moist	4-5' FILL dark brown-reddish SILT, some dark brown fine to medium sand, trace gravel		
		32/60		0	Moist			
				0	Moist	5-6.5' FILL reddish dark brown SILT, some dark brown fine to medium sand, trace silt, moist		
				0	Moist			
				0	Moist	6.5-10' FILL dark brown reddish SILT with fine dark brown reddish sand, trace gravel, moist		
10				0	Moist			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	NA			REMARKS:
Well Installed	Yes		No	We did not hit GW
Screen Interval		to		

NOTES:
B-210A - (0-0.5') - PCBS (MS/MSD)
B-210B - (3-4') - PCBS (DUP-2)
B-210C - (7-8') - PCBS

BORING No. B-210

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-211
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	10'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		44/60		0	Moist	0-1.5' FILL dark brown SILT, trace fine to medium sand		
				0	Moist			
				0	Moist			
				0	Moist	1.5-5' FILL dark brown SILT, trace clay, trace gravel		
5				0	Moist			
		58/60		0	Wet			
				0	Wet	5-6' dark brown-reddish SILT, with reddish fine sand, trace gravel		
				0	Wet			
				0	Wet			
10				0	Wet	6-10' dark brown-reddish SILT with reddish fine sand, trace clay		
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	5'			REMARKS:
Well Installed	Yes		No	GW at 5'
Screen Interval		to		

NOTES:
B-211A - (0-0.5') - PCBS
B-211B - (3-4') - PCBS
B-211C - (7-8') - PCBS

BORING No. B-211

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-212
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		36/60		0	Moist	0-5' FILL dark reddish brown SILT some clay, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
5				0	Moist			
		51/60		0	Moist	5-10' dark reddish brown SILT some clay, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist			
10				0	Moist			
		60/60		0	Wet	10-12' dark reddish brown SILT, trace clay, wet		
				0	Wet			
				0	Wet	12-15' dark reddish-brown SILT, some clay, trace gravel wet, trace fine brown sand		
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	10'			REMARKS:
Well Installed	Yes		No	GW interface at 10'
Screen Interval		to		

NOTES:
B-212A - (0-0.5') - PCB, SVOC, ETPH, METALS
B-212B - (3-4') - PCB
B-212C - (7-8') - PCB
B-212D - (10-12') - PCB, SVOC, ETPH, METALS VOC
B-212E - (12-13') - METALS

BORING No. B-212

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-213

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		43/60		0	Moist			
				0	Moist	0-4' FILL dark brown SILT, trace clay, trace gravel		
				0	Moist			
				0	Moist			
5				0	Moist	4-5' FILL brown and grey gravel trace silt		
		32/60		0	Moist			
				0	Wet			
				0	Wet	5-10' dark brown SILT, trace clay, wet		
				0	Wet			
10				0	Wet			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	7'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW interface at 7'

NOTES:
B-213A - (0-0.5') - PCBS (DUP-1)
B-213B - (3-4') - PCBS (MS/MSD)
B-213C - (7-8') - PCBS

BORING No. B-213

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-214

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18
SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	10'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		36/60		0	Moist	0-4' FILL dark brown SILT, trace clay, trace gravel, moist		
				0	Moist			
				0	Moist			
				0	Moist	4-5' FILL dark brown SILT, some clay, moist		
5				0	Moist			
		50/60		0	Moist	5-7' FILL dark brown SILT, some clay, wet		
				0	Wet			
				0	Wet			
				0	Wet	7-10' FILL dark brown CLAY, some silt, wet		
10				0	Wet			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	6'		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

GW interface at 6'

NOTES:
B-214A - (0-0.5') - PCBS
B-214B - (3-4') - PCBS
B-214C - (7-8') - PCBS

BORING No. B-214

Weston & Sampson℠

PROJECT: Berlin Settling Pond, Berlin CT, Eversource

REPORT OF BORING No. B-215

SHEET 1 OF 1

Project No.

CHKD BY WVS

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:

CASING:

CASING SIZE: Method

DRILL RIG: Power Probe 9520 VTR

TOTAL DEPTH: 10'

DEPTH TO BEDROCK: N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION / Burmister Classification	Contact Interval	Sample Details
		26/60		0	Moist	0-1" pine needles		
				0	Moist			
				0	Moist	1"-5' FILL dark brown SILT, some clay, trace gravel, moist		
				0	Moist			
5				0	Moist			
		44/60		0	Moist			
				0	Moist			
				0	Moist	5-10' FILL dark brown SILTY CLAY, trace gravel, moist		
				0	Moist			
10				0	Moist			
						EOB 10'		
15								
20								
25								
30								
35								

Depth to Groundwater:	NA		
Well Installed	Yes		No
Screen Interval		to	

REMARKS:

Did not hit GW

NOTES:
B-215A - (0-0.5') - PCBS
B-215B - (3-4') - PCBS
B-215C - (8-9') - PCBS

BORING No. B-215

Weston & Sampson℠

PROJECT	REPORT OF BORING No.	B-216
Berlin Settling Pond Berlin CT Eversource	SHEET 1 OF 1 Project No. CHKD BY WVS	

BORING Co.	Ground H20	BORING LOCATION	See attached plan
FOREMAN	Marques Larabie	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Gabi P. and Chris B.	DATE START 1/17/18	DATE END 1/17/18

SAMPLER:		DRILL RIG:	Power Probe 9520 VTR
CASING:		TOTAL DEPTH:	15'
CASING SIZE:	Method	DEPTH TO BEDROCK:	N/A

DEPTH (feet)	CASING (lb/ft)	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	PID (ppm)	Moisture	SAMPLE DESCRIPTION Burmister Classification	Contact Interval	Sample Details
		21/60		0	Moist	0-1" pine needles		
				0	Moist			
				0	Moist	1"-5' FILL dark brown SILT, trace gravel, trace clay, moist		
				0	Moist			
5				0	Moist			
		26/60		0	Moist			
				0	Moist	5-7' FILL dark brown SILT, some clay, trace gravel, moist		
				0	Moist			
				0	Moist			
10				0	Moist	7-10' FILL dark brown CLAY, some silt, moist		
		35/60		0	Moist			
				0	Wet			
				0	Wet	10-15' FILL dark brown CLAY, some silt, wet		
				0	Wet			
15				0	Wet			
						EOB 15'		
20								
25								
30								
35								

Depth to Groundwater:	11'			REMARKS:
Well Installed	Yes		No	GW interface at 11'
Screen Interval		to		

NOTES:
B-216A - (0-0.5') - PCB, SVOC, ETPH, METALS
B-216B - (3-4') - PCB
B-216C - (7-8') - PCB
B-216D - (10-12') - PCB, SVOC, ETPH, METALS VOC
B-216E - (13-14') - METALS

BORING No. B-216

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-217
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	8:50	Well Installed	Y (N)
SAMPLER		End Time	9:10	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		50/60		N/A		Dry	1inch asphalt 0-5 red/dark brown SILT and red/dark brown fine SAND. Trace gravel. Dry		
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
5		42/60		N/A		Dry	5-10 red/dark brown fine to med SAND and red dark brown SILT. Trace gravel. Possible stain or asphalt at 5.5 ft. Dry		
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
10				N/A		Moist	10-15 red/dark brown fine to med SAND and red dark brown SILT. Trace gravel. Moist		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
15				N/A		Moist			
							EOB 15'		
20									
25									
30									
35									

NOTES:

Did not find GW
Sample B-217A(0-0.5) for PCBs 0900
B-217B(7-8) for PCBs at 0905, and B-217C(10-12) for PCBs at 0910

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-218
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	9:30	Well Installed	Y (N)
SAMPLER		End Time	9:45	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		27/60		N/A		Moist	0-5 red dark brown fine to medium SAND with red dark brown silt. Some clay trace gravel moist. Possible stain/asphalt at 1ft		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5		55/60		N/A		Moist			
				N/A		Moist	5-10 red dark brown SILT with fine red dark brown sand. Some clay. Trace gravel. Moist.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
10							EOB 10'		
15									
20									
25									
30									
35									

NOTES:

Did not find GW
Sampled: B-218A (0-0.5) for PCBs at 0935 DUP-1, B-218B (3-4) for PCBs at 0940

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-219
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.

BORING Co.	Ground H2O
FOREMAN	Marques Larabie
DRILL RIG	
SAMPLER	

Project Info.

WSE Geologist	Gabriella Pagliuca
Date	3/8/2018
Start Time	9:50
End Time	10:00

Subsurface

Depth to Water (ft)	
Refusal	Y (N)
Well Installed	Y (N)
Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		26/60		N/A		Moist	0-5 red/ dark brown fine to med SAND with red dark brown silt. Trace clay. Some gravel. Moist		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist	Possible asphalt at 1.5 feet		
5							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not encounter GW
Sampled: B-219A (0-0.5) for PCBs and MS/MSD at 0955, B-219B (3-4) for PCBs 1000

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-220
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	10:10	Well Installed	Y (N)
SAMPLER		End Time	10:20	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		34/60		N/A		Moist	0-5 red dark brown fine to medium SAND with red dark brown SILT trace gravel. Moist. Trace clay.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
Sampled: B-220A(0-0.5) for PCBs at 1015, B-220B (3-4) for PCBs at 1020

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-221
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	10:25	Well Installed	Y (N)
SAMPLER		End Time	10:40	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		34/60		N/A		Dry	0-5 red dark brown fine SAND with gravel some silt. Dry.		
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
5							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
Samples B-221A (0-1) PCBS SVOCs Metals (MSMSD SVOCS) 1030 DUP-2(SVOCS)
B-221B (3-4) PCBs for 1035

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-222
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.

BORING Co.	Ground H2O
FOREMAN	Marques Larabie
DRILL RIG	
SAMPLER	

Project Info.

WSE Geologist	Gabriella Pagliuca
Date	
Start Time	10:40
End Time	10:55

Subsurface

Depth to Water (ft)	
Refusal	Y (N)
Well Installed	Y (N)
Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		29/60		N/A		Moist	0-5 red dark brown fine to med SAND with red dark brown Silt. Some gravel moist. Asphalt around 1 ft		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5				N/A		Moist			
							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
Sampled B-222A(0-0.5) PCBs and DUP-3 1050
B-222A PBCs 1055

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-223
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		*Project Info.*		*Subsurface*	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	10:55	Well Installed	Y (N)
SAMPLER		End Time	11:10	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		30/60		N/A		Moist	0-5 red dark brown fine to medium SAND with red dark brown silt. Some gravel. Asphalt at 1 ft. Moist.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5				N/A		Moist			
							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
B-223A(0-0.5) for PCBS at 1100
B-223B(3-4) PCBs SVOCs ETPH MSMSD(EPTH) dup 4 (ETPH) at 1105

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-224
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.

BORING Co.	Ground H2O
FOREMAN	Marques Larabie
DRILL RIG	
SAMPLER	

Project Info.

WSE Geologist	Gabriella Pagliuca
Date	3/8/2018
Start Time	11:15
End Time	11:30

Subsurface

Depth to Water (ft)	
Refusal	Y (N)
Well Installed	Y (N)
Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		24/60		N/A			0-5 red dark brown fine to medium SAND with gravel, some silt moist No stains/odors asphalt at 1ft		
				N/A					
				N/A					
				N/A					
				N/A					
5		30/60		N/A			5-10 red dark brown fine to medium SAND with gravel some silt. Moist. No stains or odors		
				N/A					
				N/A					
				N/A					
				N/A					
10							EOB 10'		
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
B-224A(0-0.5) PCBs 1120
B-224B(3-4) PCBs 1125
B-224C(7-8) PCBs 1130

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-225
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.

BORING Co.	Ground H2O
FOREMAN	Marques Larabie
DRILL RIG	
SAMPLER	

Project Info.

WSE Geologist	Gabriella Pagliuca
Date	
Start Time	11:35
End Time	11:55

Subsurface

Depth to Water (ft)	
Refusal	Y (N)
Well Installed	Y (N)
Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		24/60		N/A		Dry	0-5 red dark brown fine to medium SAND with red dark brown SILT some gravel. Dry. No stains/odors		
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
				N/A		Dry			
5		12/60		N/A		Moist	5-10red dark brown fine to medium sand with red dark brown silt. Trace gravel. Moist. No stains/odors		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
10							EOB 10'		
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
B-225A PCBs Metals MSMSD (metals) 1140
B-225B 3-4 PCBs 1145
B-225C 7-8 PCBs 1150

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-226
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	12:00	Well Installed	Y (N)
SAMPLER		End Time	12:10	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		34/60		N/A		Moist	0-5 red dark brown fine to medium SAND with gravel. Some red dark brown silt. Moist.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
B-226A (0-0.5) PCBs Metals Dup5 (metals) 1205
B-226B (3-4) PCBs 1210

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

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GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-227
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		*Project Info.*		*Subsurface*	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date		Refusal	Y (N)
DRILL RIG		Start Time	12:15	Well Installed	Y (N)
SAMPLER		End Time	12:25	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		25/60		N/A		Moist	0-5 dark brown fine to medium SAND with dark brown silt, some gravel, moist		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5				N/A		Moist			
							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:

Did not find groundwater
B-227A (0-0.5) PCBs Metals 1220
B-227B(3-4) PCBs 1225

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

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GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-228
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		*Project Info.*		*Subsurface*	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	12:30	Well Installed	Y (N)
SAMPLER		End Time	12:40	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		27/60		N/A		Moist	0-5 red dark brown fine to medium SAND with red dark brown silt. Some gravel. Moist.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5		60/60		N/A		Moist	5-10 red dark brown SILT with fine red dark brown sand. Trace gravel, moist no stains/odors. Trace clay.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
10							EOB 10'		
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
B-228A(0-0.5) PCBS 1230
B-228B(3-4) PCBS and MSMSD PCBs 1235
B-228C (7-8) PCBs 1240

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

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GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-229
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/8/2018	Refusal	Y (N)
DRILL RIG		Start Time	12:40	Well Installed	Y (N)
SAMPLER		End Time	12:55	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		20/60		N/A		Moist	0-5 red dark brown SILT with red dark brown fine sand. Some gravel. Moist no stains/odors		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5		40/60		N/A		Moist			
				N/A		Moist	5-10 red dark brown SILT. Some fine red dark brown sand. Trace clay. Trace gravel. Moist		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
10							EOB 10'		
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
Sampled: B-229A (0-0.5) for PCBs at 1245, B-229B (3-4) for PCBs at 1250, and B-229C (7-8) for PCBs

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-230
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/16/2018	Refusal	Y (N)
DRILL RIG		Start Time	1030	Well Installed	Y (N)
SAMPLER		End Time	1045	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
				N/A		Moist	0-5' Fine to medium coarse Reddish dark brown SAND with reddish dark brown SILT, trace gravel. Asphalt at 4', trace clay, moist.		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5				N/A		Moist			
							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
Sampled: B-230A (0-0.5) for PCBs, B-230B (3-4) for PCBs, and B-230C (4-5) for PCBs

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Weston & Sampson℠

GEOPROBE BORING LOG

Client	Eversource	Boring No.:	B-232
Project Name:	Berlin Settling Basin	Sheet	1 of 1
Project Address:	107 Selden Street, Berlin, CT	Project No.	
		Checked By:	

Driller Info.		Project Info.		Subsurface	
BORING Co.	Ground H2O	WSE Geologist	Gabriella Pagliuca	Depth to Water (ft)	
FOREMAN	Marques Larabie	Date	3/16/2018	Refusal	Y (N)
DRILL RIG		Start Time	1020	Well Installed	Y (N)
SAMPLER		End Time	1030	Screen Interval	to

CORE STATS				SAMPLE DESCRIPTION					
Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Measure-ment	Moisture	Lithology (Modified Burmster)	Contact	Sample Details
		45/60		N/A		Moist	0-5' Reddish dark brown SILT with fine reddish dark brown SAND. Trace gravel, trace clay, no stains/odors, moist. Trace asphalt from 3-5'		
				N/A		Moist			
				N/A		Moist			
				N/A		Moist			
5				N/A		Moist			
							EOB 5'		
10									
15									
20									
25									
30									
35									

NOTES:
Did not find groundwater
Sampled: B-232A (0-0.5) for PCBs, B-232B (3-4) for PCBs, B-232C (4-5) for PCBs.

Terms	Percentage
trace	0-10%
little	10-20%
some	20-35%
and	35-50$

1. Stratification lines represent approximate boundaries between soil types.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

APPENDIX B

GROUNDWATER SAMPLING FORMS

Well Purging-Groundwater Sampling Form

Weston & Sampson

Page 1 of 1

Project Name:	Berlin Settling Basin	Project #:		Date:	February 1 2018
Well ID:	MW-1	Well Diameter:	2 "	Casing Type:	PVC
Initial Depth to Water:	11.07	Total Depth:	18'	Screen Length:	
Pumping Method:	Low flow- peristaltic				
Tube Intake Set at:	15'	Depth to Water with Tube:		Sampled By:	WVS
Tube Diameter:	0.25"	Notes:			

Instrument Info
Flow Thru Cell _____ Turbidity Meter _____

Condition	Visual ID		Well Cap		Lock		Collar	
	Y	N	Y	N	Y	N	Good	Damaged

Comments on Well Condition _____

Purge Start Time

Time	Flow	DTW	PH	ORP	Temp	SpC	DO	Turb	Comments
Units	mL\min	Ft.	Units	mV	°C	mS/cm	mg\L	NTU's	
Min	ml/min	Not to exceed 0.3'	+/- 0.1	+/- 10	+/- 3%	+/- 3%	+/- 10% or 3 >0.5	+/- 10% or 3>5	
1000	175	11.26	6.64	119	7.05	25.5	8.31	2.20	
1005	175	11.26	6.25	156	6.39	26.2	7.21	0.00	
1010	175	11.27	6.12	162	6.26	26.3	7.58	0.00	
1015	175	11.27	6.08	164	6.29	25.8	7.58	0.00	
1020	175	11.27	6.06	166	6.31	25.6	7.64	0.00	

Sample(s) Collected	Time	Color	Odor	Preservative
Sampled at 1030				

Well Purging-Groundwater Sampling Form

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Page 1 of 1

Project Name:	Berlin Settling Basin	Project #:		Date:	February 1 2018
Well ID:	MW-3	Well Diameter:	2"	Casing Type:	PVC
Initial Depth to Water:	15.35	Total Depth:	22.8	Screen Length:	
Pumping Method:	Low flor - peristaltic				
Tube Intake Set at:	19'	Depth to Water with Tube:		Sampled By:	WVS
Tube Diameter:	0.25"	Notes:			

Instrument Info
Flow Thru Cell _____ Turbidity Meter _____

Condition	Visual ID		Well Cap		Lock		Collar	
	Y	N	Y	N	Y	N	Good	Damaged

Comments on Well Condition _____

Purge Start Time

Time	Flow	DTW	PH	ORP	Temp	SpC	DO	Turb	Comments
Units	mL\min	Ft.	Units	mV	°C	mS/cm	mg\L	NTU's	
Min	ml/min	Not to exceed 0.3'	+/- 0.1	+/- 10	+/- 3%	+/- 3%	+/- 10% or 3 >0.5	+/- 10% or 3>5	
1015	175	15.38	6.07	314	8.51	33.4	6.25	0.00	
1020	175	15.39	6.01	276	8.70	31.8	4.84	0.00	
1025	175	15.39	6.03	263	8.62	30.4	4.38	0.00	
1030	175	15.39	6.05	250	8.44	28.0	3.94	0.00	
1035	175	15.39	6.07	245	8.37	27.2	3.67	0.00	
1040	175	15.39	6.07	238	8.36	26.8	3.27	0.00	
1045	175	15.39	6.07	235	8.40	26.6	3.18	0.00	

Sample(s) Collected	Time	Color	Odor	Preservative
Sampled at 1045				

Well Purging-Groundwater Sampling Form

Weston & Sampson

Page 1 of 1

Project Name:	Berlin Settling Basin	Project #:		Date:	February 1 2018
Well ID:	MW-4	Well Diameter:	2"	Casing Type:	PVC
Initial Depth to Water:	16.35	Total Depth:	18.8	Screen Length:	
Pumping Method:	Low flow - peristaltic pump				
Tube Intake Set at:		Depth to Water with Tube:		Sampled By:	WVS
Tube Diameter:	0.25"	Notes:	Insufficient H20- Straight to sampling		

Instrument Info
Flow Thru Cell _____ Turbidity Meter _____

Condition	Visual ID		Well Cap		Lock		Collar	
	Y	N	Y	N	Y	N	Good	Damaged

Comments on Well Condition _____

Purge Start Time

Time	Flow	DTW	PH	ORP	Temp	SpC	DO	Turb	Comments
Units	mL\min	Ft.	Units	mV	°C	mS/cm	mg\L	NTU's	
Min	ml/min	Not to exceed 0.3'	+/- 0.1	+/- 10	+/- 3%	+/- 3%	+/- 10% or 3 >0.5	+/- 10% or 3>5	
1355	175	16.8	7.52	98.0	8.78	1.42	5.26	1.30	
1400	175	17.2	7.55	105	8.81	1.45	5.05	1.00	

Sample(s) Collected	Time	Color	Odor	Preservative
Sampled at 1400				

Well Purging-Groundwater Sampling Form

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Page 1 of 1

Project Name:	Berlin Settling Basin	Project #:		Date:	February 1 2018
Well ID:	MW-5	Well Diameter:	2"	Casing Type:	PVC
Initial Depth to Water:	8.75	Total Depth:	17	Screen Length:	
Pumping Method:	Low flow - peristaltic				
Tube Intake Set at:		Depth to Water with Tube:		Sampled By:	WVS
Tube Diameter:		Notes:			

Instrument Info
Flow Thru Cell _____ Turbidity Meter _____

Condition	Visual ID		Well Cap		Lock		Collar	
	Y	N	Y	N	Y	N	Good	Damaged

Comments on Well Condition _____

Purge Start Time

Time	Flow	DTW	PH	ORP	Temp	SpC	DO	Turb	Comments
Units	mL\min	Ft.	Units	mV	°C	mS/cm	mg\L	NTU's	
Min	ml/min	Not to exceed 0.3'	+/- 0.1	+/- 10	+/- 3%	+/- 3%	+/- 10% or 3 >0.5	+/- 10% or 3>5	
1140	175	8.76	7.36	104	7.43	2.96	6.30	9.40	
1145	175	8.76	6.90	122	7.57	2.9	5.46	14.0	
1150	175	8.76	6.64	137	7.68	2.83	5.00	11.4	
1155	175	8.76	6.58	140	764	2.85	4.95	10.3	
1200	175	8.76	6.56	143	7.62	2.87	4.91	10.3	

Sample(s) Collected	Time	Color	Odor	Preservative
Sampled at 1200 + DUP 1				

Well Purging-Groundwater Sampling Form

Weston & Sampson

Page 1 of 1

Project Name:	Berlin Settling Basin	Project #:		Date:	February 1 2017
Well ID:	MW-6	Well Diameter:	2"	Casing Type:	PVC
Initial Depth to Water:	18.65	Total Depth:	25.62	Screen Length:	
Pumping Method:	Low flow- peristaltic pump				
Tube Intake Set at:		Depth to Water with Tube:		Sampled By:	GNP
Tube Diameter:		Notes:			

Instrument Info
Flow Thru Cell _____ Turbidity Meter _____

Condition	Visual ID		Well Cap		Lock		Collar	
	Y	(N)	(Y)	N	Y	(N)	(Good)	Damaged

Comments on Well Condition _____

Purge Start Time

Time	Flow	DTW	PH	ORP	Temp	SpC	DO	Turb	Comments
Units	mL\min	Ft.	Units	mV	°C	mS/cm	mg\L	NTU's	
Min	ml/min	Not to exceed 0.3'	+/- 0.1	+/- 10	+/- 3%	+/- 3%	+/- 10% or 3 >0.5	+/- 10% or 3>5	
1348	240	18.75	5.89	222	9.600	26.9	3.70	9.9	Actual start time 1247
1353	240	18.75	5.83	225	9.930	30.1	4.08	5.4	
1358	240	18.75	5.84	232	10.35	29.8	4.00	3.0	
1403	240	18.75	5.84	238	10.69	29.8	3.96	1.0	
1408	240	18.75	5.83	242	10.87	29.7	3.95	0.0	
1413	240	18.75	5.83	248	11.08	29.4	3.80	0.0	
1418	240	18.75	5.82	250	11.32	29.4	3.84	0.0	
1423	240	18.75	5.82	253	11.57	29.3	3.79	0.0	

Sample(s) Collected	Time	Color	Odor	Preservative
Sampled at 1325				

APPENDIX C

ANALYTICAL DATA REPORTS

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

January 30, 2018

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

Project Location: 107 Seldon St., Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18A0552

Enclosed are results of analyses for samples received by the laboratory on January 18, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
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: 1/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0552

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

PROJECT LOCATION: 107 Seldon St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-205A (0.0-0.5)	18A0552-01	Soil		SM 2540G	
				SW-846 8082A	
B-205B (4-5)	18A0552-02	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
B-205C (7-8)	18A0552-03	Soil		SM 2540G	
				SW-846 8082A	
B-206A (0.0-0.5)	18A0552-04	Soil		SM 2540G	
				SW-846 8082A	
B-206B (3-4)	18A0552-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
B-206C (7-8)	18A0552-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
B-207A (0.0-0.5)	18A0552-07	Soil		SM 2540G	
				SW-846 8082A	
B-207B (3-4)	18A0552-08	Soil		SM 2540G	
				SW-846 8082A	
B-207C (7-8)	18A0552-09	Soil		SM 2540G	
				SW-846 8082A	
B-208A (0.0-0.5)	18A0552-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-208B (3-4)	18A0552-11	Soil		SM 2540G	
				SW-846 8082A	
B-208C (7-8)	18A0552-12	Soil		SM 2540G	
				SW-846 8082A	
B-208D (10-12)	18A0552-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

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

REPORT DATE: 1/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0552

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

PROJECT LOCATION: 107 Seldon St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-208E (13-14)	18A0552-14	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-209A (0-0.5)	18A0552-15	Soil		SM 2540G	
				SW-846 8082A	
B-209B (3-4)	18A0552-16	Soil		SM 2540G	
				SW-846 8082A	
B-209C (7-8)	18A0552-17	Soil		SM 2540G	
				SW-846 8082A	
B-210A (0-0.5)	18A0552-18	Soil		SM 2540G	
				SW-846 8082A	
B-210B (3-4)	18A0552-19	Soil		SM 2540G	
				SW-846 8082A	
B-210C (7-8)	18A0552-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

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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
18A0552-05[B-206B (3-4)]

SW-846 8082A

Qualifications:

MS-19

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

Analyte & Samples(s) Qualified:

Aroclor-1260
B195147-MSD1

Aroclor-1260 [2C]
B195147-MS1, B195147-MSD1

SW-846 8260C

Qualifications:

L-03

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
18A0552-13[B-208D (10-12)], B195288-BLK1, B195288-BS1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
18A0552-13[B-208D (10-12)], B195288-BLK1, B195288-BS1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
18A0552-13[B-208D (10-12)], B195288-BLK1, B195288-BS1

SW-846 8270D

Qualifications:

con-test® ANALYTICAL LABORATORY
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E

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

Analyte & Samples(s) Qualified:

Anthracene
18A0552-05RE1[B-206B (3-4)]

Benzo(a)anthracene
18A0552-05RE1[B-206B (3-4)]

Benzo(a)pyrene
18A0552-05RE1[B-206B (3-4)]

Benzo(b)fluoranthene
18A0552-05RE1[B-206B (3-4)]

Chrysene
18A0552-05RE1[B-206B (3-4)]

Fluoranthene
18A0552-05RE1[B-206B (3-4)]

Phenanthrene
18A0552-05RE1[B-206B (3-4)]

Pyrene
18A0552-05RE1[B-206B (3-4)]

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:

3,3-Dichlorobenzidine
18A0552-02[B-205B (4-5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1

4-Chloroaniline
18A0552-02[B-205B (4-5)], 18A0552-05RE1[B-206B (3-4)], 18A0552-05RE2[B-206B (3-4)], 18A0552-06RE1[B-206C (7-8)], 18A0552-10RE1[B-208A (0.0-0.5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

Aniline
18A0552-02[B-205B (4-5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1

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-Fluorophenol
18A0552-13[B-208D (10-12)]

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
18A0552-02[B-205B (4-5)], 18A0552-05RE1[B-206B (3-4)], 18A0552-05RE2[B-206B (3-4)], 18A0552-06RE1[B-206C (7-8)], 18A0552-10RE1[B-208A (0.0-0.5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18A0552-02[B-205B (4-5)], 18A0552-05RE1[B-206B (3-4)], 18A0552-05RE2[B-206B (3-4)], 18A0552-06RE1[B-206C (7-8)], 18A0552-10RE1[B-208A (0.0-0.5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

4-Chloroaniline
18A0552-02[B-205B (4-5)], 18A0552-05RE1[B-206B (3-4)], 18A0552-05RE2[B-206B (3-4)], 18A0552-06RE1[B-206C (7-8)], 18A0552-10RE1[B-208A (0.0-0.5)], 18A0552-13[B-208D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

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

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

SW-846 8270D

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205A (0.0-0.5) | Sampled: 1/17/2018 15:40

Sample ID: 18A0552-01

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	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1260 [2]	1.0	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		1/23/18 23:29
Decachlorobiphenyl [2]	89.1	30-150		1/23/18 23:29
Tetrachloro-m-xylene [1]	91.2	30-150		1/23/18 23:29
Tetrachloro-m-xylene [2]	91.0	30-150		1/23/18 23:29

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205A (0.0-0.5) | Sampled: 1/17/2018 15:40

Sample ID: 18A0552-01

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	82.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:21	MRL

con-test® ANALYTICAL LABORATORY
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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205B (4-5) | Sampled: 1/17/2018 15:42

Sample ID: 18A0552-02

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	1/19/18	1/22/18 15:55	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Aniline	ND	0.38	mg/Kg dry	1	L-04	SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Benzo(a)anthracene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Benzo(a)pyrene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Benzo(b)fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Chloroaniline	ND	0.74	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Chrysene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Fluoranthene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205B (4-5) | Sampled: 1/17/2018 15:42

Sample ID: 18A0552-02

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	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Pyrene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 15:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	32.1	30-130		1/22/18 15:55
Phenol-d6	32.6	30-130		1/22/18 15:55
Nitrobenzene-d5	32.3	30-130		1/22/18 15:55
2-Fluorobiphenyl	38.1	30-130		1/22/18 15:55
2,4,6-Tribromophenol	40.4	30-130		1/22/18 15:55
p-Terphenyl-d14	40.3	30-130		1/22/18 15:55

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205B (4-5) | Sampled: 1/17/2018 15:42

Sample ID: 18A0552-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1254 [1]	0.42	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1260 [1]	0.78	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.6	30-150		1/23/18 23:48
Decachlorobiphenyl [2]	87.8	30-150		1/23/18 23:48
Tetrachloro-m-xylene [1]	88.0	30-150		1/23/18 23:48
Tetrachloro-m-xylene [2]	88.5	30-150		1/23/18 23:48

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205B (4-5) | Sampled: 1/17/2018 15:42

Sample ID: 18A0552-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:21	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205C (7-8) | Sampled: 1/17/2018 15:44

Sample ID: 18A0552-03

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	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1260 [1]	0.33	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		1/24/18 0:06
Decachlorobiphenyl [2]	75.1	30-150		1/24/18 0:06
Tetrachloro-m-xylene [1]	90.5	30-150		1/24/18 0:06
Tetrachloro-m-xylene [2]	89.8	30-150		1/24/18 0:06

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-205C (7-8) | Sampled: 1/17/2018 15:44

Sample ID: 18A0552-03

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	91.6		% Wt	1		SM 2540G	1/19/18	1/22/18 7:21	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206A (0.0-0.5) | Sampled: 1/17/2018 15:06

Sample ID: 18A0552-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1260 [2]	0.98	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		1/24/18 0:24
Decachlorobiphenyl [2]	77.9	30-150		1/24/18 0:24
Tetrachloro-m-xylene [1]	86.6	30-150		1/24/18 0:24
Tetrachloro-m-xylene [2]	86.2	30-150		1/24/18 0:24

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206A (0.0-0.5) | Sampled: 1/17/2018 15:06

Sample ID: 18A0552-04

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	77.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:21	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	39	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Acenaphthene	46	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Acenaphthylene	ND	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Acenaphthylene	ND	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Aniline	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Aniline	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Anthracene	56	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Anthracene	65	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Benzo(a)anthracene	91	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Benzo(a)anthracene	100	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Benzo(a)pyrene	81	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Benzo(a)pyrene	89	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Benzo(b)fluoranthene	93	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Benzo(b)fluoranthene	110	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Benzo(g,h,i)perylene	39	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Benzo(g,h,i)perylene	40	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Benzo(k)fluoranthene	38	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Benzo(k)fluoranthene	42	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Bis(2-chloroethoxy)methane	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Bis(2-chloroethoxy)methane	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Bis(2-chloroethyl)ether	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Bis(2-chloroethyl)ether	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Bis(2-chloroisopropyl)ether	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Bis(2-chloroisopropyl)ether	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Bis(2-Ethylhexyl)phthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Bromophenylphenylether	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Bromophenylphenylether	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Butylbenzylphthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Butylbenzylphthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Carbazole	23	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Carbazole	27	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Chloroaniline	ND	7.3	mg/Kg dry	10	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Chloroaniline	ND	73	mg/Kg dry	100	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Chloro-3-methylphenol	ND	7.3	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Chloro-3-methylphenol	ND	73	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2-Chloronaphthalene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Chloronaphthalene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2-Chlorophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Chlorophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Chlorophenylphenylether	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Chlorophenylphenylether	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Chrysene	87	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Chrysene	96	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

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	9.5	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Dibenz(a,h)anthracene	ND	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Dibenzofuran	20	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Dibenzofuran	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Di-n-butylphthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Di-n-butylphthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
3,3-Dichlorobenzidine	ND	1.9	mg/Kg dry	10	V-34	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
3,3-Dichlorobenzidine	ND	19	mg/Kg dry	100	V-34	SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4-Dichlorophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4-Dichlorophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Diethylphthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Diethylphthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4-Dimethylphenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4-Dimethylphenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Dimethylphthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Dimethylphthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4,6-Dinitro-2-methylphenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4,6-Dinitro-2-methylphenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4-Dinitrophenol	ND	7.3	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4-Dinitrophenol	ND	73	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4-Dinitrotoluene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4-Dinitrotoluene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,6-Dinitrotoluene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,6-Dinitrotoluene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Di-n-octylphthalate	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Di-n-octylphthalate	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Fluoranthene	180	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Fluoranthene	240	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Fluorene	32	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Fluorene	37	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Hexachlorobenzene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Hexachlorobenzene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Hexachlorobutadiene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Hexachlorobutadiene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Hexachlorocyclopentadiene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Hexachlorocyclopentadiene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Hexachloroethane	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Hexachloroethane	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Indeno(1,2,3-cd)pyrene	43	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Indeno(1,2,3-cd)pyrene	47	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Isophorone	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Isophorone	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2-Methylnaphthalene	10	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Methylnaphthalene	ND	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

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	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Methylphenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
3/4-Methylphenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
3/4-Methylphenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Naphthalene	24	1.9	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Naphthalene	27	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2-Nitroaniline	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Nitroaniline	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
3-Nitroaniline	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
3-Nitroaniline	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Nitroaniline	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Nitroaniline	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Nitrobenzene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Nitrobenzene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2-Nitrophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2-Nitrophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
4-Nitrophenol	ND	7.3	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
4-Nitrophenol	ND	73	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
N-Nitrosodiphenylamine	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
N-Nitrosodiphenylamine	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
N-Nitrosodi-n-propylamine	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
N-Nitrosodi-n-propylamine	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Pentachloronitrobenzene	ND	3.7	mg/Kg dry	10	V-16	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Pentachloronitrobenzene	ND	37	mg/Kg dry	100	V-16	SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Pentachlorophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Pentachlorophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Phenanthrene	160	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Phenanthrene	230	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Phenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Phenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Pyrene	170	1.9	mg/Kg dry	10	E	SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Pyrene	220	19	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
Pyridine	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
Pyridine	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
1,2,4,5-Tetrachlorobenzene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
1,2,4-Trichlorobenzene	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
1,2,4-Trichlorobenzene	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4,5-Trichlorophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4,5-Trichlorophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL
2,4,6-Trichlorophenol	ND	3.7	mg/Kg dry	10		SW-846 8270D	1/23/18	1/24/18 11:58	BGL
2,4,6-Trichlorophenol	ND	37	mg/Kg dry	100		SW-846 8270D	1/23/18	1/24/18 15:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.4	30-130		1/24/18 11:58

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

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**				
2-Fluorophenol		50.0	30-130					1/24/18 15:31	
Phenol-d6		48.4	30-130					1/24/18 11:58	
Phenol-d6		42.5	30-130					1/24/18 15:31	
Nitrobenzene-d5		56.0	30-130					1/24/18 11:58	
Nitrobenzene-d5		55.0	30-130					1/24/18 15:31	
2-Fluorobiphenyl		54.3	30-130					1/24/18 11:58	
2-Fluorobiphenyl		60.0	30-130					1/24/18 15:31	
2,4,6-Tribromophenol		51.8	30-130					1/24/18 11:58	
2,4,6-Tribromophenol		52.5	30-130					1/24/18 15:31	
p-Terphenyl-d14		66.7	30-130					1/24/18 11:58	
p-Terphenyl-d14		78.0	30-130					1/24/18 15:31	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

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	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1260 [2]	0.21	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.8	30-150		1/24/18 0:42
Decachlorobiphenyl [2]	78.8	30-150		1/24/18 0:42
Tetrachloro-m-xylene [1]	80.7	30-150		1/24/18 0:42
Tetrachloro-m-xylene [2]	78.6	30-150		1/24/18 0:42

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3700	1100	mg/Kg dry	100		CTDEP ETPH	1/19/18	1/22/18 19:20	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	**37.0** *	50-150	S-01	1/22/18 19:20



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206B (3-4) | Sampled: 1/17/2018 15:08

Sample ID: 18A0552-05

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	91.0		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206C (7-8) | Sampled: 1/17/2018 15:10

Sample ID: 18A0552-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.36	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Anthracene	0.49	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Benzo(a)anthracene	0.76	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Benzo(a)pyrene	0.64	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Benzo(b)fluoranthene	0.76	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Benzo(g,h,i)perylene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Benzo(k)fluoranthene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Carbazole	0.20	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Chrysene	0.73	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Fluoranthene	1.7	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Fluorene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Indeno(1,2,3-cd)pyrene	0.36	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206C (7-8) | Sampled: 1/17/2018 15:10

Sample ID: 18A0552-06

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	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Naphthalene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Phenanthrene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Pyrene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	69.0	30-130		1/24/18 12:43	
Phenol-d6	71.0	30-130		1/24/18 12:43	
Nitrobenzene-d5	78.3	30-130		1/24/18 12:43	
2-Fluorobiphenyl	66.7	30-130		1/24/18 12:43	
2,4,6-Tribromophenol	78.1	30-130		1/24/18 12:43	
p-Terphenyl-d14	81.5	30-130		1/24/18 12:43	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206C (7-8) | Sampled: 1/17/2018 15:10

Sample ID: 18A0552-06

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	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		1/24/18 1:00
Decachlorobiphenyl [2]	75.1	30-150		1/24/18 1:00
Tetrachloro-m-xylene [1]	86.3	30-150		1/24/18 1:00
Tetrachloro-m-xylene [2]	85.6	30-150		1/24/18 1:00

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206C (7-8) | Sampled: 1/17/2018 15:10

Sample ID: 18A0552-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	300	59	mg/Kg dry	5		CTDEP ETPH	1/19/18	1/22/18 19:37	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	50.2	50-150				1/22/18 19:37	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-206C (7-8) | Sampled: 1/17/2018 15:10

Sample ID: 18A0552-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207A (0.0-0.5) | Sampled: 1/17/2018 14:54

Sample ID: 18A0552-07

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	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1221 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1232 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1242 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1248 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1254 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1260 [2]	1.8	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1262 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG
Aroclor-1268 [1]	ND	0.53	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		1/24/18 17:28
Decachlorobiphenyl [2]	99.2	30-150		1/24/18 17:28
Tetrachloro-m-xylene [1]	92.6	30-150		1/24/18 17:28
Tetrachloro-m-xylene [2]	96.2	30-150		1/24/18 17:28

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207A (0.0-0.5) | Sampled: 1/17/2018 14:54

Sample ID: 18A0552-07

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	74.6		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207B (3-4) | Sampled: 1/17/2018 14:56

Sample ID: 18A0552-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	82.8	30-150				1/24/18 1:37	
Decachlorobiphenyl [2]	85.6	30-150				1/24/18 1:37	
Tetrachloro-m-xylene [1]	81.5	30-150				1/24/18 1:37	
Tetrachloro-m-xylene [2]	80.9	30-150				1/24/18 1:37	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207B (3-4) | Sampled: 1/17/2018 14:56

Sample ID: 18A0552-08

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	91.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207C (7-8) | Sampled: 1/17/2018 14:58

Sample ID: 18A0552-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	85.9	30-150				1/24/18 1:55	
Decachlorobiphenyl [2]	89.9	30-150				1/24/18 1:55	
Tetrachloro-m-xylene [1]	89.7	30-150				1/24/18 1:55	
Tetrachloro-m-xylene [2]	89.9	30-150				1/24/18 1:55	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-207C (7-8) | Sampled: 1/17/2018 14:58

Sample ID: 18A0552-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) | Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Anthracene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Benzo(a)anthracene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Benzo(a)pyrene	0.99	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Benzo(b)fluoranthene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Benzo(g,h,i)perylene	0.57	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Benzo(k)fluoranthene	0.53	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Chloroaniline	ND	0.81	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Chloro-3-methylphenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Chrysene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4-Dinitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Fluoranthene	2.3	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Indeno(1,2,3-cd)pyrene	0.65	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) | Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

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	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
4-Nitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Phenanthrene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Pyrene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 13:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	68.9	30-130		1/24/18 13:05	
Phenol-d6	68.9	30-130		1/24/18 13:05	
Nitrobenzene-d5	77.6	30-130		1/24/18 13:05	
2-Fluorobiphenyl	51.3	30-130		1/24/18 13:05	
2,4,6-Tribromophenol	62.5	30-130		1/24/18 13:05	
p-Terphenyl-d14	54.2	30-130		1/24/18 13:05	

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) | Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

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	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1260 [2]	1.6	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		1/24/18 17:41
Decachlorobiphenyl [2]	95.0	30-150		1/24/18 17:41
Tetrachloro-m-xylene [1]	86.7	30-150		1/24/18 17:41
Tetrachloro-m-xylene [2]	89.2	30-150		1/24/18 17:41

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) | Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	87	12	mg/Kg dry	1		CTDEP ETPH	1/19/18	1/22/18 20:30	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	62.9	50-150				1/22/18 20:30	

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.3	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Barium	76	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Beryllium	0.30	0.20	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Cadmium	0.35	0.20	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Chromium	16	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Copper	23	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Lead	22	0.61	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:00	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	1/23/18	1/24/18 11:04	EJB
Nickel	15	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Silver	0.65	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:00	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:00	QNW
Vanadium	32	0.81	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP
Zinc	50	0.81	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 14:32	AMP

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208A (0.0-0.5) | Sampled: 1/17/2018 14:15

Sample ID: 18A0552-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208B (3-4) | Sampled: 1/17/2018 14:17

Sample ID: 18A0552-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1260 [1]	0.34	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.8	30-150		1/24/18 3:38
Decachlorobiphenyl [2]	83.4	30-150		1/24/18 3:38
Tetrachloro-m-xylene [1]	94.9	30-150		1/24/18 3:38
Tetrachloro-m-xylene [2]	95.9	30-150		1/24/18 3:38



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208B (3-4) | Sampled: 1/17/2018 14:17

Sample ID: 18A0552-11

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	88.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:22	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208C (7-8) | Sampled: 1/17/2018 14:19

Sample ID: 18A0552-12

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	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.9	30-150		1/24/18 3:56
Decachlorobiphenyl [2]	78.3	30-150		1/24/18 3:56
Tetrachloro-m-xylene [1]	77.4	30-150		1/24/18 3:56
Tetrachloro-m-xylene [2]	78.8	30-150		1/24/18 3:56



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208C (7-8) | Sampled: 1/17/2018 14:19

Sample ID: 18A0552-12

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	82.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Acrylonitrile	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 11:29	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Chlorodibromomethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
trans-1,3-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 11:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		1/22/18 11:29
Toluene-d8	102	70-130		1/22/18 11:29
4-Bromofluorobenzene	99.6	70-130		1/22/18 11:29

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Aniline	ND	0.42	mg/Kg dry	1	L-04	SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Chloroaniline	ND	0.82	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

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	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 17:24	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	**28.6**	*	30-130	S-07	1/22/18 17:24
Phenol-d6	30.2		30-130		1/22/18 17:24
Nitrobenzene-d5	32.0		30-130		1/22/18 17:24
2-Fluorobiphenyl	33.5		30-130		1/22/18 17:24
2,4,6-Tribromophenol	39.0		30-130		1/22/18 17:24
p-Terphenyl-d14	37.8		30-130		1/22/18 17:24

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		1/24/18 4:15
Decachlorobiphenyl [2]	88.7	30-150		1/24/18 4:15
Tetrachloro-m-xylene [1]	84.4	30-150		1/24/18 4:15
Tetrachloro-m-xylene [2]	85.4	30-150		1/24/18 4:15

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) | Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	14	12	mg/Kg dry	1		CTDEP ETPH	1/19/18	1/22/18 18:27	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	56.6	50-150				1/22/18 18:27	

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Arsenic	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Barium	54	2.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Beryllium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Chromium	15	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Copper	11	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Lead	7.7	0.62	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:05	QNW
Mercury	ND	0.032	mg/Kg dry	1		SW-846 7471B	1/23/18	1/24/18 11:06	EJB
Nickel	10	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:05	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:05	QNW
Vanadium	27	0.82	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP
Zinc	27	0.82	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:15	AMP

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208D (10-12) Sampled: 1/17/2018 14:21

Sample ID: 18A0552-13

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	80.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208E (13-14) Sampled: 1/17/2018 14:23

Sample ID: 18A0552-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.8	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Barium	59	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Beryllium	0.28	0.20	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Chromium	21	0.39	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Copper	18	0.39	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Lead	11	0.59	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:10	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	1/23/18	1/24/18 11:12	EJB
Nickel	17	0.39	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Silver	0.42	0.39	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:10	MJH
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/29/18 17:10	MJH
Vanadium	31	0.79	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP
Zinc	49	0.79	mg/Kg dry	1		SW-846 6010C-D	1/23/18	1/26/18 15:20	AMP



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-208E (13-14) | Sampled: 1/17/2018 14:23

Sample ID: 18A0552-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209A (0-0.5) | Sampled: 1/17/2018 12:55

Sample ID: 18A0552-15

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	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1260 [1]	1.9	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 17:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		1/24/18 17:53
Decachlorobiphenyl [2]	102	30-150		1/24/18 17:53
Tetrachloro-m-xylene [1]	92.0	30-150		1/24/18 17:53
Tetrachloro-m-xylene [2]	95.9	30-150		1/24/18 17:53

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209A (0-0.5) | Sampled: 1/17/2018 12:55

Sample ID: 18A0552-15

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	80.9		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209B (3-4) | Sampled: 1/17/2018 12:57

Sample ID: 18A0552-16

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	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1260 [1]	1.9	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/19/18	1/24/18 18:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		1/24/18 18:06
Decachlorobiphenyl [2]	99.6	30-150		1/24/18 18:06
Tetrachloro-m-xylene [1]	95.0	30-150		1/24/18 18:06
Tetrachloro-m-xylene [2]	96.6	30-150		1/24/18 18:06



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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209B (3-4) | Sampled: 1/17/2018 12:57

Sample ID: 18A0552-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209C (7-8) | Sampled: 1/17/2018 12:59

Sample ID: 18A0552-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	81.6	30-150				1/24/18 5:09	
Decachlorobiphenyl [2]	85.9	30-150				1/24/18 5:09	
Tetrachloro-m-xylene [1]	88.4	30-150				1/24/18 5:09	
Tetrachloro-m-xylene [2]	86.3	30-150				1/24/18 5:09	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-209C (7-8) | Sampled: 1/17/2018 12:59

Sample ID: 18A0552-17

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	79.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210A (0-0.5) | Sampled: 1/17/2018 12:30

Sample ID: 18A0552-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1260 [2]	1.2	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		1/24/18 5:27
Decachlorobiphenyl [2]	84.1	30-150		1/24/18 5:27
Tetrachloro-m-xylene [1]	84.0	30-150		1/24/18 5:27
Tetrachloro-m-xylene [2]	83.9	30-150		1/24/18 5:27

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

Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210A (0-0.5) Sampled: 1/17/2018 12:30

Sample ID: 18A0552-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:23	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210B (3-4) | Sampled: 1/17/2018 12:32

Sample ID: 18A0552-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	90.7	30-150				1/24/18 5:45	
Decachlorobiphenyl [2]	96.0	30-150				1/24/18 5:45	
Tetrachloro-m-xylene [1]	91.3	30-150				1/24/18 5:45	
Tetrachloro-m-xylene [2]	91.8	30-150				1/24/18 5:45	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210B (3-4) | Sampled: 1/17/2018 12:32

Sample ID: 18A0552-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210C (7-8) | Sampled: 1/17/2018 12:34

Sample ID: 18A0552-20

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	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	82.8	30-150				1/24/18 6:04	
Decachlorobiphenyl [2]	88.0	30-150				1/24/18 6:04	
Tetrachloro-m-xylene [1]	85.7	30-150				1/24/18 6:04	
Tetrachloro-m-xylene [2]	86.6	30-150				1/24/18 6:04	



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0552

Date Received: 1/18/2018

Field Sample #: B-210C (7-8) | Sampled: 1/17/2018 12:34

Sample ID: 18A0552-20

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	86.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	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
18A0552-05 [B-206B (3-4)]	B195150	30.0	1.00	01/19/18
18A0552-06 [B-206C (7-8)]	B195150	30.0	1.00	01/19/18
18A0552-10 [B-208A (0.0-0.5)]	B195150	30.0	1.00	01/19/18
18A0552-13 [B-208D (10-12)]	B195150	30.0	1.00	01/19/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0552-01 [B-205A (0.0-0.5)]	B195159	01/19/18
18A0552-02 [B-205B (4-5)]	B195159	01/19/18
18A0552-03 [B-205C (7-8)]	B195159	01/19/18
18A0552-04 [B-206A (0.0-0.5)]	B195159	01/19/18
18A0552-05 [B-206B (3-4)]	B195159	01/19/18
18A0552-06 [B-206C (7-8)]	B195159	01/19/18
18A0552-07 [B-207A (0.0-0.5)]	B195159	01/19/18
18A0552-08 [B-207B (3-4)]	B195159	01/19/18
18A0552-09 [B-207C (7-8)]	B195159	01/19/18
18A0552-10 [B-208A (0.0-0.5)]	B195159	01/19/18
18A0552-11 [B-208B (3-4)]	B195159	01/19/18
18A0552-12 [B-208C (7-8)]	B195159	01/19/18
18A0552-13 [B-208D (10-12)]	B195159	01/19/18
18A0552-14 [B-208E (13-14)]	B195159	01/19/18
18A0552-15 [B-209A (0-0.5)]	B195159	01/19/18
18A0552-16 [B-209B (3-4)]	B195159	01/19/18
18A0552-17 [B-209C (7-8)]	B195159	01/19/18
18A0552-18 [B-210A (0-0.5)]	B195159	01/19/18
18A0552-19 [B-210B (3-4)]	B195159	01/19/18
18A0552-20 [B-210C (7-8)]	B195159	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-10 [B-208A (0.0-0.5)]	B195311	1.52	50.0	01/23/18
18A0552-13 [B-208D (10-12)]	B195311	1.50	50.0	01/23/18
18A0552-14 [B-208E (13-14)]	B195311	1.52	50.0	01/23/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-10 [B-208A (0.0-0.5)]	B195315	0.601	50.0	01/23/18
18A0552-13 [B-208D (10-12)]	B195315	0.573	50.0	01/23/18
18A0552-14 [B-208E (13-14)]	B195315	0.582	50.0	01/23/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-01 [B-205A (0.0-0.5)]	B195147	10.3	10.0	01/19/18
18A0552-02 [B-205B (4-5)]	B195147	10.0	10.0	01/19/18
18A0552-03 [B-205C (7-8)]	B195147	10.1	10.0	01/19/18
18A0552-04 [B-206A (0.0-0.5)]	B195147	10.0	10.0	01/19/18

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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
18A0552-05 [B-206B (3-4)]	B195147	10.3	10.0	01/19/18
18A0552-06 [B-206C (7-8)]	B195147	10.2	10.0	01/19/18
18A0552-07 [B-207A (0.0-0.5)]	B195147	10.2	10.0	01/19/18
18A0552-08 [B-207B (3-4)]	B195147	10.0	10.0	01/19/18
18A0552-09 [B-207C (7-8)]	B195147	10.0	10.0	01/19/18
18A0552-10 [B-208A (0.0-0.5)]	B195147	10.1	10.0	01/19/18
18A0552-11 [B-208B (3-4)]	B195147	10.0	10.0	01/19/18
18A0552-12 [B-208C (7-8)]	B195147	10.3	10.0	01/19/18
18A0552-13 [B-208D (10-12)]	B195147	10.1	10.0	01/19/18
18A0552-15 [B-209A (0-0.5)]	B195147	10.3	10.0	01/19/18
18A0552-16 [B-209B (3-4)]	B195147	10.0	10.0	01/19/18
18A0552-17 [B-209C (7-8)]	B195147	10.3	10.0	01/19/18
18A0552-18 [B-210A (0-0.5)]	B195147	10.4	10.0	01/19/18
18A0552-19 [B-210B (3-4)]	B195147	10.0	10.0	01/19/18
18A0552-20 [B-210C (7-8)]	B195147	10.2	10.0	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-13 [B-208D (10-12)]	B195288	9.21	10.0	01/22/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-02 [B-205B (4-5)]	B195151	30.0	1.00	01/19/18
18A0552-13 [B-208D (10-12)]	B195151	30.0	1.00	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0552-05RE1 [B-206B (3-4)]	B195396	30.0	1.00	01/23/18
18A0552-05RE2 [B-206B (3-4)]	B195396	30.0	1.00	01/23/18
18A0552-06RE1 [B-206C (7-8)]	B195396	30.4	1.00	01/23/18
18A0552-10RE1 [B-208A (0.0-0.5)]	B195396	30.1	1.00	01/23/18

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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 B195288 - SW-846 5035										
Blank (B195288-BLK1)				Prepared & Analyzed: 01/22/18						
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							V-34
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							L-03, V-05
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 B195288 - SW-846 5035										
Blank (B195288-BLK1)				Prepared & Analyzed: 01/22/18						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0565*		mg/Kg wet	0.0500		113	70-130			
Surrogate: Toluene-d8	*0.0519*		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/Kg wet	0.0500		99.3	70-130			
LCS (B195288-BS1)				Prepared & Analyzed: 01/22/18						
Acetone	0.258	0.10	mg/Kg wet	0.200		129	70-130			
Acrylonitrile	0.0206	0.0060	mg/Kg wet	0.0200		103	70-130			
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Bromobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
Bromodichloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0205	0.010	mg/Kg wet	0.0200		102	70-130			V-34
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-130			
n-Butylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
sec-Butylbenzene	0.0161	0.0020	mg/Kg wet	0.0200		80.7	70-130			
tert-Butylbenzene	0.0158	0.0020	mg/Kg wet	0.0200		79.2	70-130			
Carbon Disulfide	0.185	0.0060	mg/Kg wet	0.200		92.3	70-130			
Carbon Tetrachloride	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Chlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
Chlorodibromomethane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
Chloroethane	0.0174	0.020	mg/Kg wet	0.0200		87.0	70-130			
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0161	0.010	mg/Kg wet	0.0200		80.3	70-130			
2-Chlorotoluene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130			
4-Chlorotoluene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dibromoethane (EDB)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,3-Dichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
1,4-Dichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130			
trans-1,4-Dichloro-2-butene	0.0172	0.0040	mg/Kg wet	0.0200		86.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.0206	0.020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
1,1-Dichloroethylene	0.0205	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 B195288 - SW-846 5035											
LCS (B195288-BS1)				Prepared & Analyzed: 01/22/18							
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
trans-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130			
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130			
1,3-Dichloropropane	0.0223	0.0010	mg/Kg wet	0.0200		112		70-130			
2,2-Dichloropropane	0.0115	0.0020	mg/Kg wet	0.0200		**57.3**	*	70-130			L-03, V-05
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.8		70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5		70-130			
Ethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130			
Hexachlorobutadiene	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130			
2-Hexanone (MBK)	0.254	0.020	mg/Kg wet	0.200		127		70-130			
Isopropylbenzene (Cumene)	0.0167	0.0020	mg/Kg wet	0.0200		83.3		70-130			
p-Isopropyltoluene (p-Cymene)	0.0163	0.0020	mg/Kg wet	0.0200		81.7		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.7		70-130			
Methylene Chloride	0.0200	0.020	mg/Kg wet	0.0200		100		70-130			
4-Methyl-2-pentanone (MIBK)	0.246	0.020	mg/Kg wet	0.200		123		70-130			
Naphthalene	0.0184	0.0040	mg/Kg wet	0.0200		91.9		70-130			
n-Propylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130			
Styrene	0.0179	0.0020	mg/Kg wet	0.0200		89.4		70-130			
1,1,1,2-Tetrachloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
1,1,2,2-Tetrachloroethane	0.0200	0.0010	mg/Kg wet	0.0200		99.9		70-130			
Tetrachloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130			
Tetrahydrofuran	0.0230	0.010	mg/Kg wet	0.0200		115		70-130			
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.2		70-130			
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130			
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-130			
1,1,1-Trichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130			
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130			
Trichlorofluoromethane (Freon 11)	0.0215	0.010	mg/Kg wet	0.0200		108		70-130			
1,2,3-Trichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0207	0.010	mg/Kg wet	0.0200		103		70-130			
1,2,4-Trimethylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.9		70-130			
1,3,5-Trimethylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6		70-130			
Vinyl Chloride	0.0196	0.010	mg/Kg wet	0.0200		97.8		70-130			
m+p Xylene	0.0342	0.0040	mg/Kg wet	0.0400		85.4		70-130			
o-Xylene	0.0170	0.0020	mg/Kg wet	0.0200		84.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0600*		mg/Kg wet	0.0500		120		70-130			
Surrogate: Toluene-d8	*0.0509*		mg/Kg wet	0.0500		102		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0515*		mg/Kg wet	0.0500		103		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 B195151 - SW-846 3546										
Blank (B195151-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							L-04
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, V-34
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							L-04, V-34
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 B195151 - SW-846 3546												
Blank (B195151-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18								
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	*3.14*		mg/Kg wet	6.67		47.0		30-130				
Surrogate: Phenol-d6	*3.14*		mg/Kg wet	6.67		47.1		30-130				
Surrogate: Nitrobenzene-d5	*1.72*		mg/Kg wet	3.33		51.5		30-130				
Surrogate: 2-Fluorobiphenyl	*1.60*		mg/Kg wet	3.33		48.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.54*		mg/Kg wet	6.67		53.1		30-130				
Surrogate: p-Terphenyl-d14	*1.87*		mg/Kg wet	3.33		56.2		30-130				
LCS (B195151-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18								
Acenaphthene	0.885	0.17	mg/Kg wet	1.67		53.1		40-140				
Acenaphthylene	0.849	0.17	mg/Kg wet	1.67		50.9		40-140				
Aniline	0.549	0.34	mg/Kg wet	1.67		**33.0**	*	40-140			L-04	†
Anthracene	0.948	0.17	mg/Kg wet	1.67		56.9		40-140				
Benzo(a)anthracene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140				
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4		40-140				
Benzo(b)fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3		40-140				
Benzo(g,h,i)perylene	0.973	0.17	mg/Kg wet	1.67		58.4		40-140				
Benzo(k)fluoranthene	0.916	0.17	mg/Kg wet	1.67		55.0		40-140				
Bis(2-chloroethoxy)methane	0.922	0.34	mg/Kg wet	1.67		55.3		40-140				
Bis(2-chloroethyl)ether	0.798	0.34	mg/Kg wet	1.67		47.9		40-140				
Bis(2-chloroisopropyl)ether	0.859	0.34	mg/Kg wet	1.67		51.5		40-140				
Bis(2-Ethylhexyl)phthalate	0.936	0.34	mg/Kg wet	1.67		56.2		40-140				
4-Bromophenylphenylether	0.916	0.34	mg/Kg wet	1.67		55.0		40-140				
Butylbenzylphthalate	0.942	0.34	mg/Kg wet	1.67		56.5		40-140				
Carbazole	0.960	0.17	mg/Kg wet	1.67		57.6		40-140				
4-Chloroaniline	0.521	0.66	mg/Kg wet	1.67		**31.3**	*	40-140			L-04, V-34	†
4-Chloro-3-methylphenol	0.878	0.66	mg/Kg wet	1.67		52.7		30-130				
2-Chloronaphthalene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140				
2-Chlorophenol	0.803	0.34	mg/Kg wet	1.67		48.2		30-130				
4-Chlorophenylphenylether	0.890	0.34	mg/Kg wet	1.67		53.4		40-140				
Chrysene	0.927	0.17	mg/Kg wet	1.67		55.6		40-140				
Dibenz(a,h)anthracene	0.967	0.17	mg/Kg wet	1.67		58.0		40-140				
Dibenzofuran	0.886	0.34	mg/Kg wet	1.67		53.2		40-140				
Di-n-butylphthalate	0.876	0.34	mg/Kg wet	1.67		52.5		40-140				
3,3-Dichlorobenzidine	0.607	0.17	mg/Kg wet	1.67		**36.4**	*	40-140			L-04, V-34	†
2,4-Dichlorophenol	0.822	0.34	mg/Kg wet	1.67		49.3		30-130				
Diethylphthalate	0.862	0.34	mg/Kg wet	1.67		51.7		40-140				
2,4-Dimethylphenol	0.808	0.34	mg/Kg wet	1.67		48.5		30-130				
Dimethylphthalate	0.911	0.34	mg/Kg wet	1.67		54.6		40-140				
4,6-Dinitro-2-methylphenol	0.863	0.34	mg/Kg wet	1.67		51.8		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195151 - SW-846 3546											
LCS (B195151-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18							
2,4-Dinitrophenol	0.806	0.66	mg/Kg wet	1.67		48.4	30-130				
2,4-Dinitrotoluene	0.969	0.34	mg/Kg wet	1.67		58.2	40-140				
2,6-Dinitrotoluene	0.998	0.34	mg/Kg wet	1.67		59.9	40-140				
Di-n-octylphthalate	0.857	0.34	mg/Kg wet	1.67		51.4	40-140				
Fluoranthene	0.942	0.17	mg/Kg wet	1.67		56.5	40-140				
Fluorene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140				
Hexachlorobenzene	0.904	0.34	mg/Kg wet	1.67		54.2	40-140				
Hexachlorobutadiene	0.774	0.34	mg/Kg wet	1.67		46.4	40-140				
Hexachlorocyclopentadiene	0.781	0.34	mg/Kg wet	1.67		46.8	30-140				
Hexachloroethane	0.734	0.34	mg/Kg wet	1.67		44.1	40-140				
Indeno(1,2,3-cd)pyrene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140				
Isophorone	0.864	0.34	mg/Kg wet	1.67		51.9	40-140				
2-Methylnaphthalene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140				
2-Methylphenol	0.815	0.34	mg/Kg wet	1.67		48.9	30-130				
3/4-Methylphenol	0.822	0.34	mg/Kg wet	1.67		49.3	30-130				
Naphthalene	0.802	0.17	mg/Kg wet	1.67		48.1	40-140				
2-Nitroaniline	1.12	0.34	mg/Kg wet	1.67		67.4	40-140				
3-Nitroaniline	0.869	0.34	mg/Kg wet	1.67		52.1	40-140				†
4-Nitroaniline	0.988	0.34	mg/Kg wet	1.67		59.3	40-140				
Nitrobenzene	0.818	0.34	mg/Kg wet	1.67		49.1	40-140				
2-Nitrophenol	0.861	0.34	mg/Kg wet	1.67		51.7	30-130				
4-Nitrophenol	0.912	0.66	mg/Kg wet	1.67		54.7	10-130				
N-Nitrosodiphenylamine	1.06	0.34	mg/Kg wet	1.67		63.7	40-140				
N-Nitrosodi-n-propylamine	0.807	0.34	mg/Kg wet	1.67		48.4	40-140				
Pentachloronitrobenzene	0.936	0.34	mg/Kg wet	1.67		56.1	40-140			V-16	
Pentachlorophenol	0.919	0.34	mg/Kg wet	1.67		55.1	30-130				
Phenanthrene	0.931	0.17	mg/Kg wet	1.67		55.8	40-140				
Phenol	0.799	0.34	mg/Kg wet	1.67		47.9	20-130				
Pyrene	0.916	0.17	mg/Kg wet	1.67		55.0	40-140				
Pyridine	0.608	0.34	mg/Kg wet	1.67		36.5	10-140				†
1,2,4,5-Tetrachlorobenzene	0.821	0.34	mg/Kg wet	1.67		49.2	40-140				
1,2,4-Trichlorobenzene	0.791	0.34	mg/Kg wet	1.67		47.4	40-140				
2,4,5-Trichlorophenol	0.859	0.34	mg/Kg wet	1.67		51.5	30-130				
2,4,6-Trichlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8	30-130				
Surrogate: 2-Fluorophenol	*3.68*		mg/Kg wet	6.67		55.3	30-130				
Surrogate: Phenol-d6	*3.51*		mg/Kg wet	6.67		52.6	30-130				
Surrogate: Nitrobenzene-d5	*1.77*		mg/Kg wet	3.33		53.2	30-130				
Surrogate: 2-Fluorobiphenyl	*1.86*		mg/Kg wet	3.33		55.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.02*		mg/Kg wet	6.67		60.2	30-130				
Surrogate: p-Terphenyl-d14	*2.00*		mg/Kg wet	3.33		60.0	30-130				
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Acenaphthene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140	8.96	30		
Acenaphthylene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	8.97	30		
Aniline	0.635	0.34	mg/Kg wet	1.67		**38.1**	* 40-140	14.5	50	L-04	† ‡
Anthracene	1.03	0.17	mg/Kg wet	1.67		61.5	40-140	7.87	30		
Benzo(a)anthracene	0.981	0.17	mg/Kg wet	1.67		58.9	40-140	8.09	30		
Benzo(a)pyrene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140	5.89	30		
Benzo(b)fluoranthene	0.945	0.17	mg/Kg wet	1.67		56.7	40-140	6.11	30		
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	8.90	30		
Benzo(k)fluoranthene	0.950	0.17	mg/Kg wet	1.67		57.0	40-140	3.61	30		
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.67		62.7	40-140	12.5	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 B195151 - SW-846 3546												
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18								
Bis(2-chloroethyl)ether	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	14.6	30		
Bis(2-chloroisopropyl)ether	1.01	0.34	mg/Kg wet	1.67		60.5		40-140	16.1	30		
Bis(2-Ethylhexyl)phthalate	0.975	0.34	mg/Kg wet	1.67		58.5		40-140	4.08	30		
4-Bromophenylphenylether	0.956	0.34	mg/Kg wet	1.67		57.4		40-140	4.27	30		
Butylbenzylphthalate	1.01	0.34	mg/Kg wet	1.67		60.4		40-140	6.57	30		
Carbazole	0.999	0.17	mg/Kg wet	1.67		60.0		40-140	3.98	30		
4-Chloroaniline	0.544	0.66	mg/Kg wet	1.67		**32.6**	*	40-140	4.19	30	L-04, V-34	†
4-Chloro-3-methylphenol	0.873	0.66	mg/Kg wet	1.67		52.4		30-130	0.647	30		
2-Chloronaphthalene	0.859	0.34	mg/Kg wet	1.67		51.6		40-140	11.3	30		
2-Chlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130	11.1	30		
4-Chlorophenylphenylether	0.959	0.34	mg/Kg wet	1.67		57.6		40-140	7.54	30		
Chrysene	0.975	0.17	mg/Kg wet	1.67		58.5		40-140	5.08	30		
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140	8.83	30		
Dibenzofuran	0.961	0.34	mg/Kg wet	1.67		57.7		40-140	8.12	30		
Di-n-butylphthalate	0.946	0.34	mg/Kg wet	1.67		56.8		40-140	7.76	30		
3,3-Dichlorobenzidine	0.642	0.17	mg/Kg wet	1.67		**38.5**	*	40-140	5.60	30	L-04, V-34	† ‡
2,4-Dichlorophenol	0.906	0.34	mg/Kg wet	1.67		54.4		30-130	9.68	30		
Diethylphthalate	0.927	0.34	mg/Kg wet	1.67		55.6		40-140	7.23	30		
2,4-Dimethylphenol	0.906	0.34	mg/Kg wet	1.67		54.4		30-130	11.5	30		
Dimethylphthalate	0.969	0.34	mg/Kg wet	1.67		58.1		40-140	6.21	50		
4,6-Dinitro-2-methylphenol	0.929	0.34	mg/Kg wet	1.67		55.7		30-130	7.29	50		
2,4-Dinitrophenol	0.816	0.66	mg/Kg wet	1.67		48.9		30-130	1.15	50		
2,4-Dinitrotoluene	1.08	0.34	mg/Kg wet	1.67		64.6		40-140	10.4	30		
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	6.24	30		
Di-n-octylphthalate	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	7.45	30		
Fluoranthene	0.955	0.17	mg/Kg wet	1.67		57.3		40-140	1.30	30		
Fluorene	0.964	0.17	mg/Kg wet	1.67		57.8		40-140	8.70	30		
Hexachlorobenzene	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	3.19	30		
Hexachlorobutadiene	0.880	0.34	mg/Kg wet	1.67		52.8		40-140	12.8	30		
Hexachlorocyclopentadiene	0.908	0.34	mg/Kg wet	1.67		54.5		30-140	15.0	50		
Hexachloroethane	0.832	0.34	mg/Kg wet	1.67		49.9		40-140	12.5	50		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.7		40-140	8.59	50		
Isophorone	0.994	0.34	mg/Kg wet	1.67		59.7		40-140	14.0	30		
2-Methylnaphthalene	0.916	0.17	mg/Kg wet	1.67		55.0		40-140	3.59	30		
2-Methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3		30-130	14.1	30		
3/4-Methylphenol	0.922	0.34	mg/Kg wet	1.67		55.3		30-130	11.5	30		
Naphthalene	0.915	0.17	mg/Kg wet	1.67		54.9		40-140	13.1	30		
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		75.1		40-140	10.8	30		
3-Nitroaniline	0.916	0.34	mg/Kg wet	1.67		55.0		40-140	5.27	30		†
4-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	7.75	30		
Nitrobenzene	0.948	0.34	mg/Kg wet	1.67		56.9		40-140	14.7	30		
2-Nitrophenol	1.01	0.34	mg/Kg wet	1.67		60.4		30-130	15.5	30		
4-Nitrophenol	1.03	0.66	mg/Kg wet	1.67		61.8		10-130	12.1	50		‡
N-Nitrosodiphenylamine	1.17	0.34	mg/Kg wet	1.67		70.0		40-140	9.34	30		
N-Nitrosodi-n-propylamine	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	11.0	30		
Pentachloronitrobenzene	0.974	0.34	mg/Kg wet	1.67		58.4		40-140	3.98	30	V-16	
Pentachlorophenol	0.982	0.34	mg/Kg wet	1.67		58.9		30-130	6.63	50		
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140	8.01	30		
Phenol	0.916	0.34	mg/Kg wet	1.67		55.0		20-130	13.7	30		
Pyrene	0.993	0.17	mg/Kg wet	1.67		59.6		40-140	8.07	30		
Pyridine	0.618	0.34	mg/Kg wet	1.67		37.1		10-140	1.58	50		†
1,2,4,5-Tetrachlorobenzene	0.915	0.34	mg/Kg wet	1.67		54.9		40-140	10.8	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 B195151 - SW-846 3546										
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18						
1,2,4-Trichlorobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	11.1	30	
2,4,5-Trichlorophenol	0.942	0.34	mg/Kg wet	1.67		56.5	30-130	9.26	30	
2,4,6-Trichlorophenol	0.991	0.34	mg/Kg wet	1.67		59.5	30-130	9.95	50	
Surrogate: 2-Fluorophenol	*3.81*		mg/Kg wet	6.67		57.2	30-130			
Surrogate: Phenol-d6	*3.87*		mg/Kg wet	6.67		58.0	30-130			
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.03*		mg/Kg wet	3.33		61.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.22*		mg/Kg wet	6.67		63.3	30-130			
Surrogate: p-Terphenyl-d14	*2.08*		mg/Kg wet	3.33		62.5	30-130			
Batch B195396 - SW-846 3546										
Blank (B195396-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
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, V-34
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							V-34
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							

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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 B195396 - SW-846 3546												
Blank (B195396-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18								
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									
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	*4.70*		mg/Kg wet	6.67		70.4		30-130				
Surrogate: Phenol-d6	*4.47*		mg/Kg wet	6.67		67.0		30-130				
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.49*		mg/Kg wet	3.33		74.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.19*		mg/Kg wet	6.67		77.8		30-130				
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.4		30-130				
LCS (B195396-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18								
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.7		40-140				
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.7		40-140				
Aniline	0.745	0.34	mg/Kg wet	1.67		44.7		40-140				†
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.5		40-140				
Benzo(a)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140				
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.1		40-140				
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.4		40-140				
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		72.9		40-140				
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2		40-140				
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.3		40-140				
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.67		62.2		40-140				
Bis(2-chloroisopropyl)ether	1.07	0.34	mg/Kg wet	1.67		64.3		40-140				
Bis(2-Ethylhexyl)phthalate	1.27	0.34	mg/Kg wet	1.67		76.1		40-140				
4-Bromophenylphenylether	1.23	0.34	mg/Kg wet	1.67		73.6		40-140				
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.0		40-140				
Carbazole	1.12	0.17	mg/Kg wet	1.67		67.4		40-140				
4-Chloroaniline	0.596	0.66	mg/Kg wet	1.67		**35.7**	*	40-140			L-04, V-34	†
4-Chloro-3-methylphenol	1.09	0.66	mg/Kg wet	1.67		65.3		30-130				
2-Chloronaphthalene	0.986	0.34	mg/Kg wet	1.67		59.2		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 B195396 - SW-846 3546											
LCS (B195396-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18							
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4	30-130				
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.0	40-140				
Chrysene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140				
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140				
Dibenzofuran	1.13	0.34	mg/Kg wet	1.67		67.6	40-140				
Di-n-butylphthalate	1.10	0.34	mg/Kg wet	1.67		65.8	40-140				
3,3-Dichlorobenzidine	0.809	0.17	mg/Kg wet	1.67		48.5	40-140			V-34	†
2,4-Dichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130				
Diethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.7	40-140				
2,4-Dimethylphenol	1.03	0.34	mg/Kg wet	1.67		61.7	30-130				
Dimethylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140				
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.8	30-130				
2,4-Dinitrophenol	1.06	0.66	mg/Kg wet	1.67		63.6	30-130				
2,4-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140				
2,6-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		71.8	40-140				
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		72.2	40-140				
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140				
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.7	40-140				
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140				
Hexachlorobutadiene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140				
Hexachlorocyclopentadiene	1.12	0.34	mg/Kg wet	1.67		67.1	30-140				
Hexachloroethane	0.954	0.34	mg/Kg wet	1.67		57.2	40-140				
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140				
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.6	40-140				
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140				
2-Methylphenol	0.999	0.34	mg/Kg wet	1.67		59.9	30-130				
3/4-Methylphenol	0.970	0.34	mg/Kg wet	1.67		58.2	30-130				
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140				
2-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140				
3-Nitroaniline	0.993	0.34	mg/Kg wet	1.67		59.6	40-140				†
4-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.8	40-140				
Nitrobenzene	1.02	0.34	mg/Kg wet	1.67		61.1	40-140				
2-Nitrophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130				
4-Nitrophenol	1.09	0.66	mg/Kg wet	1.67		65.2	10-130				
N-Nitrosodiphenylamine	1.38	0.34	mg/Kg wet	1.67		82.7	40-140				
N-Nitrosodi-n-propylamine	0.938	0.34	mg/Kg wet	1.67		56.3	40-140				
Pentachloronitrobenzene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140			V-16	
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130				
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140				
Phenol	0.981	0.34	mg/Kg wet	1.67		58.8	20-130				
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140				
Pyridine	0.705	0.34	mg/Kg wet	1.67		42.3	10-140				†
1,2,4,5-Tetrachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140				
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140				
2,4,5-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130				
2,4,6-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130				
Surrogate: 2-Fluorophenol	*4.24*		mg/Kg wet	6.67		63.6	30-130				
Surrogate: Phenol-d6	*4.15*		mg/Kg wet	6.67		62.3	30-130				
Surrogate: Nitrobenzene-d5	*2.18*		mg/Kg wet	3.33		65.5	30-130				
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.9	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.91*		mg/Kg wet	6.67		73.7	30-130				
Surrogate: p-Terphenyl-d14	*2.53*		mg/Kg wet	3.33		76.0	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 B195396 - SW-846 3546												
LCS Dup (B195396-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18								
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.3		40-140	2.00	30		
Acenaphthylene	1.07	0.17	mg/Kg wet	1.67		64.2		40-140	0.652	30		
Aniline	0.832	0.34	mg/Kg wet	1.67		49.9		40-140	11.1	50		† ‡
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.2		40-140	0.960	30		
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		69.9		40-140	1.21	30		
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0		40-140	1.43	30		
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	2.03	30		
Benzo(g,h,i)perylene	1.25	0.17	mg/Kg wet	1.67		74.8		40-140	2.54	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9		40-140	2.46	30		
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	4.57	30		
Bis(2-chloroethyl)ether	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	1.28	30		
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7		40-140	9.39	30		
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.2		40-140	1.27	30		
4-Bromophenylphenylether	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.68	30		
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		73.9		40-140	1.31	30		
Carbazole	1.15	0.17	mg/Kg wet	1.67		68.9		40-140	2.20	30		
4-Chloroaniline	0.664	0.66	mg/Kg wet	1.67		**39.9**	*	40-140	10.9	30	L-04, V-34	†
4-Chloro-3-methylphenol	1.17	0.66	mg/Kg wet	1.67		70.0		30-130	6.95	30		
2-Chloronaphthalene	0.971	0.34	mg/Kg wet	1.67		58.3		40-140	1.53	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.0		30-130	0.686	30		
4-Chlorophenylphenylether	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	2.26	30		
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.4		40-140	1.08	30		
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5		40-140	3.01	30		
Dibenzofuran	1.11	0.34	mg/Kg wet	1.67		66.5		40-140	1.58	30		
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	5.67	30		
3,3-Dichlorobenzidine	0.853	0.17	mg/Kg wet	1.67		51.2		40-140	5.34	30	V-34	† ‡
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		71.9		30-130	4.87	30		
Diethylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2		40-140	2.32	30		
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130	5.30	30		
Dimethylphthalate	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	2.36	50		
4,6-Dinitro-2-methylphenol	1.12	0.34	mg/Kg wet	1.67		67.0		30-130	0.269	50		
2,4-Dinitrophenol	0.994	0.66	mg/Kg wet	1.67		59.6		30-130	6.46	50		
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.2		40-140	1.23	30		
2,6-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		74.0		40-140	3.02	30		
Di-n-octylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.580	30		
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9		40-140	3.12	30		
Fluorene	1.05	0.17	mg/Kg wet	1.67		63.3		40-140	3.72	30		
Hexachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.5		40-140	2.72	30		
Hexachlorobutadiene	1.11	0.34	mg/Kg wet	1.67		66.7		40-140	2.40	30		
Hexachlorocyclopentadiene	1.06	0.34	mg/Kg wet	1.67		63.5		30-140	5.61	50		
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.5		40-140	7.24	50		
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9		40-140	1.72	50		
Isophorone	1.15	0.34	mg/Kg wet	1.67		69.1		40-140	6.79	30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6		40-140	0.454	30		
2-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.7		30-130	4.56	30		
3/4-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.8		30-130	7.64	30		
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.3		40-140	1.50	30		
2-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.8		40-140	0.687	30		
3-Nitroaniline	1.04	0.34	mg/Kg wet	1.67		62.4		40-140	4.56	30		†
4-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.4		40-140	2.09	30		
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.9		40-140	6.07	30		
2-Nitrophenol	1.18	0.34	mg/Kg wet	1.67		71.0		30-130	1.76	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 B195396 - SW-846 3546											
LCS Dup (B195396-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18							
4-Nitrophenol	1.10	0.66	mg/Kg wet	1.67		66.2	10-130	1.55	50		‡
N-Nitrosodiphenylamine	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	0.314	30		
N-Nitrosodi-n-propylamine	1.02	0.34	mg/Kg wet	1.67		61.1	40-140	8.11	30		
Pentachloronitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.2	40-140	1.67	30	V-16	
Pentachlorophenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130	1.52	50		
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.369	30		
Phenol	0.990	0.34	mg/Kg wet	1.67		59.4	20-130	0.947	30		
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140	1.06	30		
Pyridine	0.692	0.34	mg/Kg wet	1.67		41.5	10-140	1.81	50		†
1,2,4,5-Tetrachlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.9	40-140	7.34	30		
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	1.38	30		
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130	1.71	30		
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.6	30-130	2.33	50		
Surrogate: 2-Fluorophenol	*4.03*		mg/Kg wet	6.67		60.5	30-130				
Surrogate: Phenol-d6	*4.19*		mg/Kg wet	6.67		62.8	30-130				
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.24*		mg/Kg wet	3.33		67.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.68*		mg/Kg wet	6.67		70.3	30-130				
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.33		75.2	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 B195147 - SW-846 3540C										
Blank (B195147-BLK1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			
LCS (B195147-BS1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		99.1	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.7	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.7	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			
LCS Dup (B195147-BSD1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		102	40-140	3.38	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.8	40-140	1.07	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.7	40-140	2.47	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.5	40-140	0.558	30	
Surrogate: Decachlorobiphenyl	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg wet	0.200		97.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.1	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 B195147 - SW-846 3540C											
Matrix Spike (B195147-MS1)	**Source: 18A0552-18**			Prepared: 01/19/18 Analyzed: 01/24/18							
Aroclor-1016	0.31	0.11	mg/Kg dry	0.263	ND	117		40-140			
Aroclor-1016 [2C]	0.29	0.11	mg/Kg dry	0.263	ND	111		40-140			
Aroclor-1260	1.4	0.11	mg/Kg dry	0.263	1.1	121		40-140			
Aroclor-1260 [2C]	1.5	0.11	mg/Kg dry	0.263	1.2	140		40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg dry	0.263		83.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.238*		mg/Kg dry	0.263		90.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.238*		mg/Kg dry	0.263		90.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.263		90.5		30-150			
Matrix Spike Dup (B195147-MSD1)	**Source: 18A0552-18**			Prepared: 01/19/18 Analyzed: 01/24/18							
Aroclor-1016	0.31	0.11	mg/Kg dry	0.263	ND	116		40-140	0.700	50	
Aroclor-1016 [2C]	0.29	0.11	mg/Kg dry	0.263	ND	111		40-140	0.259	50	
Aroclor-1260	1.5	0.11	mg/Kg dry	0.263	1.1	**152**	*	40-140	5.42	50	MS-19
Aroclor-1260 [2C]	1.6	0.11	mg/Kg dry	0.263	1.2	**161**	*	40-140	3.56	50	MS-19
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg dry	0.263		82.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.235*		mg/Kg dry	0.263		89.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.233*		mg/Kg dry	0.263		88.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.233*		mg/Kg dry	0.263		88.9		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 B195150 - SW-846 3546										
Blank (B195150-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.26*		mg/Kg wet	3.33		67.8	50-150			
LCS (B195150-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18						
CT ETPH	22.3	10	mg/Kg wet	33.3		67.0	60-120			
Surrogate: o-Terphenyl	*2.54*		mg/Kg wet	3.33		76.1	50-150			
LCS Dup (B195150-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18						
CT ETPH	24.4	10	mg/Kg wet	33.3		73.1	60-120	8.63	30	
Surrogate: o-Terphenyl	*2.68*		mg/Kg wet	3.33		80.3	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 B195311 - SW-846 3050B										
Blank (B195311-BLK1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B195311-BS1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Antimony	64.3	5.1	mg/Kg wet	65.1		98.7	3.8-212			
Arsenic	152	5.1	mg/Kg wet	147		103	83-117			
Barium	339	5.1	mg/Kg wet	314		108	82.2-117.8			
Beryllium	61.2	0.51	mg/Kg wet	53.4		115	82.8-117.2			
Cadmium	208	0.51	mg/Kg wet	193		108	82.4-117.6			
Chromium	88.2	1.0	mg/Kg wet	82.6		107	81.8-118.2			
Copper	196	1.0	mg/Kg wet	171		114	83.6-116.4			
Lead	88.5	1.5	mg/Kg wet	92.3		95.9	82.8-117			
Nickel	148	1.0	mg/Kg wet	137		108	82.5-118.2			
Selenium	196	10	mg/Kg wet	187		105	79.1-121.4			
Silver	40.0	1.0	mg/Kg wet	40.7		98.3	79.6-120.4			
Thallium	142	5.1	mg/Kg wet	153		92.5	81-119			
Vanadium	95.3	2.0	mg/Kg wet	86.6		110	77.6-122.4			
Zinc	200	2.0	mg/Kg wet	189		106	79.9-120.1			
LCS Dup (B195311-BSD1)				Prepared: 01/23/18 Analyzed: 01/26/18						
Antimony	53.1	4.9	mg/Kg wet	65.1		81.5	3.8-212	19.1	30	
Arsenic	136	4.9	mg/Kg wet	147		92.2	83-117	11.4	30	
Barium	295	4.9	mg/Kg wet	314		94.1	82.2-117.8	13.6	30	
Beryllium	54.0	0.49	mg/Kg wet	53.4		101	82.8-117.2	12.4	30	
Cadmium	180	0.49	mg/Kg wet	193		93.0	82.4-117.6	14.8	30	
Chromium	77.7	0.99	mg/Kg wet	82.6		94.1	81.8-118.2	12.7	30	
Copper	174	0.99	mg/Kg wet	171		102	83.6-116.4	11.9	30	
Lead	80.3	1.5	mg/Kg wet	92.3		87.0	82.8-117	9.80	30	
Nickel	128	0.99	mg/Kg wet	137		93.2	82.5-118.2	14.7	30	
Selenium	171	9.9	mg/Kg wet	187		91.6	79.1-121.4	13.5	30	
Silver	35.5	0.99	mg/Kg wet	40.7		87.3	79.6-120.4	11.8	30	
Thallium	124	4.9	mg/Kg wet	153		81.1	81-119	13.2	30	
Vanadium	80.5	2.0	mg/Kg wet	86.6		92.9	77.6-122.4	16.9	30	
Zinc	172	2.0	mg/Kg wet	189		91.2	79.9-120.1	15.0	30	

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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 B195311 - SW-846 3050B										
MRL Check (B195311-MRL1)				Prepared: 01/23/18 Analyzed: 01/29/18						
Lead	0.487	0.50	mg/Kg wet	0.503		96.9	80-120			
Batch B195315 - SW-846 7471										
Blank (B195315-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B195315-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	10.6	1.9	mg/Kg wet	9.36		113	73.7-126.3			
LCS Dup (B195315-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	9.85	1.9	mg/Kg wet	9.36		105	73.7-126.3	7.34	30	



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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195159 - % Solids										
Duplicate (B195159-DUP1)	**Source: 18A0552-01**			Prepared: 01/19/18 Analyzed: 01/22/18						
% Solids	83.7		% Wt		82.7			1.16	20	
Duplicate (B195159-DUP2)	**Source: 18A0552-10**			Prepared: 01/19/18 Analyzed: 01/22/18						
% Solids	80.0		% Wt		80.8			1.02	20	
Duplicate (B195159-DUP3)	**Source: 18A0552-18**			Prepared: 01/19/18 Analyzed: 01/22/18						
% Solids	73.0		% Wt		76.1			4.23	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-205A (0.0-0.5)

Lab Sample ID: 18A0552-01 Date(s) Analyzed: 01/23/2018 01/23/2018

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	1.0	
	2	0.000	-0.030	0.030	1.0	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-205B (4.0-5.0)

Lab Sample ID: 18A0552-02 Date(s) Analyzed: 01/23/2018 01/23/2018

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	0.42	
	2	0.000	-0.030	0.030	0.39	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	0.74	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-205C (7.0-8.0)

Lab Sample ID: 18A0552-03 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.33	
	2	0.000	-0.030	0.030	0.30	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-206A (0.0-0.5)

Lab Sample ID: 18A0552-04 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	0.98	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-206B (3.0-4.0)

Lab Sample ID: 18A0552-05 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-207A (0.0-0.50

Lab Sample ID: 18A0552-07 Date(s) Analyzed: 01/24/2018 01/24/2018

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	1.7	
	2	0.000	-0.030	0.030	1.8	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-208A (0.0-0.5)

Lab Sample ID: 18A0552-10 Date(s) Analyzed: 01/24/2018 01/24/2018

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

B-208B (3-4)

Lab Sample ID: 18A0552-11 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.32	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-209A (0-0.5)

Lab Sample ID: 18A0552-15 Date(s) Analyzed: 01/24/2018 01/24/2018

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	1.9	
	2	0.000	-0.030	0.030	1.9	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-209B (3-4)

Lab Sample ID: 18A0552-16 Date(s) Analyzed: 01/24/2018 01/24/2018

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	1.9	
	2	0.000	-0.030	0.030	1.9	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-210A (0-0.5)

Lab Sample ID: 18A0552-18 Date(s) Analyzed: 01/24/2018 01/24/2018

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	1.1	
	2	0.000	-0.030	0.030	1.2	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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low 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.
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.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
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 Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME

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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
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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



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	09/30/2019
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	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
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

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con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 381 Rev 1_03242017

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
Address: 100 Dividend Road, Rocky Hill, CT 06067
Phone: 1-800-SAMPSON
Project Name: Basin Setting Basin
Project Location: Berlin, CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pajunca & Chris B.

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5nd 5-day

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pajunca@wsuinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsuinc.com
Fax To #:

# of Containers	1		1	1	3														
[2] Preservation Code	H		I	I	IDM														
[3] Container Code	A		A	A	V														

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	SVOCs	ETPH	RSR 15 Metals	VOCs							
1	B-205A (0.0-0.5)	1/17/18	1540		X	S	U	X											
2	B-205B (4.0-5.0)		1542					X	X										
3	B-205C (7.0-8.0)		1544					X											
4	B-206A (0.0-0.5)		1506					X											
5	B-206B (3.0-4.0)		1509					X	X	X									
6	B-206C (7.0-8.0)		1510					X	X	X									
7	B-207A (0.0-0.5)		1454					X											
8	B-207B (3.0-4.0)		1456					X											
9	B-207C (7.0-8.0)		1458					X											
10	B-208A (0.0-0.5)	↓	1415		↓	↓	↓	X	X	X	X								

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
DI H2O

[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:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been reviewed.

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:
	1/18/18 1045
Received by: (signature)	Date/Time:
	1/18/18 18:42
Relinquished by: (signature)	Date/Time:
	1/18/18 17:22
Received by: (signature)	Date/Time:
3.1/4.5/4.6	1-18-18 17:29
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RES DEC FIC 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
Enforce f102 energy@contestlabs.com 17:22
Do not f102 on 1-19-18 @ 17:22

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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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 5

Company Name:	Weston & Sampson
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	1-800-SAPSON SAMPSON
Project Name:	Berlin Settlers Barn
Project Location:	107 Selden Street, Berlin CT
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Gabriella Pagliuca & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Same 5-day

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pagliuca@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.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	SVOCs	ETPH	RSR IS Metals	VOCs							
11	B-209B (3.0-4.0)	1/17/18	1417		X	S	U	X											
12	B-209C (7.0-8.0)		1419					X											
13	B-209D (10'-12')		1421					X	X	X	X	X							
14	B-209E (13.0-14.0)		1423								X								
15	B-209A (00-0.5)		1255					X											
16	B-209B (3.0-4.0)		1257					X											
17	B-209C (7.0-8.0)		1259					X											
18	B-210A (0.0-0.5)		1230					X											
19	B-210B (3.0-4.0)		1232					X											
20	B-210C (7.0-8.0)	↓	1234		↓	↓	↓	X											

ANALYSIS REQUESTED

# of Containers	1		1	1	3														
[2] Preservation Code	I		I	I	I&M														
[3] Container Code	A		A	A	A														

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
DI H2O

[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:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been reviewed
Please run B-210A (0.0-0.5') for 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: 1/18/18 1045
Received by: (signature)		Date/Time: 1/18/18 10.45
Relinquished by: (signature)		Date/Time: 1/18/18 17:22
Received by: (signature)		Date/Time: 1-19-18 17:22
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RCP DEL I/C DEL
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
www.contestlabs.com
En Core Frozen on 1-19-18 @ 7:22
DI H2O Frozen on 1-19-18 @ 17:22
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

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

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Doc# 277 Rev 5 2017

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

Client Weston and Sampson

Received By ESD Date 1-19-18 Time 17:22

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 # 537 Actual Temp - 3.1/4.6/4.5
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NP 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? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NA Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	26
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	1
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:

DI Water Frozen on 1-19-18 @ 17:22
Encore Frozen on 1-19-18 @ 17:22

D:\HPCHEM\1\DATA\A012318\A0123006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/23/18
Data File Name	A0123006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	548257	572072	-4
c - 10	1.61	561992	572072	-2
c - 12	2.34	574915	572072	0
c - 14	3.01	588018	572072	3
c - 16	3.62	598812	572072	5
c - 18	4.23	601207	572072	5
o-Terphenyl	4.52	662432	572072	
c - 20	4.84	602983	572072	5
c - 22	5.35	601871	572072	5
c - 24	5.79	595162	572072	4
c - 26	6.18	589906	572072	3
c - 28	6.54	590300	572072	3
c - 30	6.88	588207	572072	3
c - 32	7.19	548651	572072	-4
c - 34	7.48	510414	572072	-11
c - 36	7.81	480385	572072	-16

* One compound allowed %D </= 50%

Samples
18A0589-02@100X

D:\HPCHEM\1\DATA\A012218.SEC\A0122007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/22/18
Data File Name	A0122007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	629944	659886	-5
c - 10	1.61	642286	659886	-3
c - 12	2.33	651129	659886	-1
c - 14	3.00	664015	659886	1
c - 16	3.59	677537	659886	3
c - 18	4.19	682976	659886	3
o-Terphenyl	4.48	759701	659886	
c - 20	4.80	690199	659886	5
c - 22	5.30	694773	659886	5
c - 24	5.74	692105	659886	5
c - 26	6.13	690276	659886	5
c - 28	6.49	692845	659886	5
c - 30	6.82	691450	659886	5
c - 32	7.13	643989	659886	-2
c - 34	7.42	596319	659886	-10
c - 36	7.73	558450	659886	-15

* One compound allowed %D </= 50%.

Samples
18A0552-13
18A0529-02
18A0552-05@100X
18A0552-06@5X
18A0589-01@50X
18A0552-10

D:\HPCHEM\1\DATA\A012318\A0123020.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 1/23/18
Data File Name A0123020.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	587523	626401	-6
c - 10	1.61	605131	626401	-3
c - 12	2.34	623779	626401	0
c - 14	3.01	640149	626401	2
c - 16	3.62	654509	626401	4
c - 18	4.23	659138	626401	5
o-Terphenyl	4.52	726868	626401	
c - 20	4.84	663916	626401	6
c - 22	5.35	664148	626401	6
c - 24	5.79	658412	626401	5
c - 26	6.18	652805	626401	4
c - 28	6.54	651329	626401	4
c - 30	6.88	647269	626401	3
c - 32	7.19	602169	626401	-4
c - 34	7.49	560112	626401	-11
c - 36	7.81	525625	626401	-16

* One compound allowed %D </= 50%

Samples
18A0582-19
18A0582-22

D:\HPCHEM\1\DATA\A012318\A0123030.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 1/23/18
Data File Name A0123030.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	511893	530658	-4
c - 10	1.61	524815	530658	-1
c - 12	2.34	534749	530658	1
c - 14	3.01	544844	530658	3
c - 16	3.62	554509	530658	4
c - 18	4.23	554594	530658	5
o-Terphenyl	4.52	611246	530658	
c - 20	4.84	555960	530658	5
c - 22	5.35	554400	530658	4
c - 24	5.79	549341	530658	4
c - 26	6.18	546353	530658	3
c - 28	6.54	547892	530658	3
c - 30	6.88	547065	530658	3
c - 32	7.19	510693	530658	-4
c - 34	7.48	476683	530658	-10
c - 36	7.81	446075	530658	-16

* One compound allowed %D </= 50%

Samples
18A0552-21
18A0503-01
18A0506-04
18A0582-01@10X
18A0582-18@10X
18A0582-24@10X

D:\HPCHEM\1\DATA\A012318\A0123084.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/23/18
Data File Name	A0123084.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	532922	554876	-4
c - 10	1.61	548595	554876	-1
c - 12	2.34	559975	554876	1
c - 14	3.01	569895	554876	3
c - 16	3.62	580322	554876	5
c - 18	4.23	581748	554876	5
o-Terphenyl	4.52	640397	554876	
c - 20	4.84	583481	554876	5
c - 22	5.35	583059	554876	5
c - 24	5.79	576537	554876	4
c - 26	6.18	571187	554876	3
c - 28	6.54	570504	554876	3
c - 30	6.88	568146	554876	2
c - 32	7.19	530244	554876	-4
c - 34	7.48	495103	554876	-11
c - 36	7.81	471416	554876	-15

* One compound allowed %D </= 50%

Samples
18A0673-08
18A0673-14
18A0673-16
18A0673-19
18A0673-18@10X
18A0673-11@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 107 Seldon St., Berlin, CT

Project Number: 18A0552

Laboratory Sample ID(s):
18A0552-01 thru 18A0552-20

Sample Date(s):
01/17/2018

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:** 01/30/18

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

January 26, 2018

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

Project Location: 107 Seldon St., Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18A0554

Enclosed are results of analyses for samples received by the laboratory on January 18, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
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: 1/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0554

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

PROJECT LOCATION: 107 Seldon St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-211A (0-0.5)	18A0554-01	Soil		SM 2540G	
				SW-846 8082A	
B-211B (3-4)	18A0554-02	Soil		SM 2540G	
				SW-846 8082A	
B-211C (7-8)	18A0554-03	Soil		SM 2540G	
				SW-846 8082A	
B-212A (0-0.5)	18A0554-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-212B (3-4)	18A0554-05	Soil		SM 2540G	
				SW-846 8082A	
B-212C (7-8)	18A0554-06	Soil		SM 2540G	
				SW-846 8082A	
B-212D (10-12)	18A0554-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-212E (12-13)	18A0554-08	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-213A (0-0.5)	18A0554-09	Soil		SM 2540G	
				SW-846 8082A	
B-213B (3-4)	18A0554-10	Soil		SM 2540G	
				SW-846 8082A	
B-213C (7-8)	18A0554-11	Soil		SM 2540G	
				SW-846 8082A	
B-214A (0-0.5)	18A0554-12	Soil		SM 2540G	
				SW-846 8082A	
B-214B (3-4)	18A0554-13	Soil		SM 2540G	
				SW-846 8082A	
B-214C (7-8)	18A0554-14	Soil		SM 2540G	
				SW-846 8082A	
B-215A (0-0.5)	18A0554-15	Soil		SM 2540G	
				SW-846 8082A	

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Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0554

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

PROJECT LOCATION: 107 Seldon St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-215B (3-4)	18A0554-16	Soil		SM 2540G	
				SW-846 8082A	
B-215C (8-9)	18A0554-17	Soil		SM 2540G	
				SW-846 8082A	
B-216A (0-1.0)	18A0554-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-216B (3-4)	18A0554-19	Soil		SM 2540G	
				SW-846 8082A	
B-216C (7-8)	18A0554-20	Soil		SM 2540G	
				SW-846 8082A	
B-216D (10-12)	18A0554-21	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-216E (13-14)	18A0554-22	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
DUP-1	18A0554-23	Soil		SM 2540G	
				SW-846 8082A	
DUP-2	18A0554-24	Soil		SM 2540G	
				SW-846 8082A	
EB-011718	18A0554-25	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
TB-011718	18A0554-26	Water		SW-846 8260C	
EB-011818	18A0554-27	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8260C	
				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.

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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
18A0554-04[B-212A (0-0.5)], 18A0554-07[B-212D (10-12)], 18A0554-08[B-212E (12-13)], 18A0554-21[B-216D (10-12)], 18A0554-22[B-216E (13-14)]

Thallium
18A0554-07[B-212D (10-12)], 18A0554-21[B-216D (10-12)], 18A0554-22[B-216E (13-14)]

L-07

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

Analyte & Samples(s) Qualified:

Copper
B195182-BSD1

M-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 biased on the high side.

Analyte & Samples(s) Qualified:

Lead
18A0554-04[B-212A (0-0.5)], 18A0554-07[B-212D (10-12)], 18A0554-08[B-212E (12-13)], 18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], 18A0554-22[B-216E (13-14)], B195182-BLK1, B195182-BS1, B195182-BSD1, B195182-MRL1

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:

Acetone
B195162-BS1

L-03

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
18A0554-07[B-212D (10-12)], 18A0554-21[B-216D (10-12)], B195288-BLK1, B195288-BS1

Chloromethane
18A0554-25[EB-011718], 18A0554-26[TB-011718], 18A0554-27[EB-011818], B195162-BLK1, B195162-BS1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
18A0554-07[B-212D (10-12)], 18A0554-21[B-216D (10-12)], B195288-BLK1, B195288-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
B195162-BS1

Acetone
B195162-BS1

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
18A0554-07[B-212D (10-12)], 18A0554-21[B-216D (10-12)], B195162-BS1, B195288-BLK1, B195288-BS1

Chloromethane
B195162-BS1

Dichlorodifluoromethane (Freon 1
B195162-BS1

SW-846 8270D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1

4-Chloroaniline
18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)], 18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], B195151-BLK1, B195151-BS1, B195151-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

Aniline
18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], B195151-BLK1, B195151-BS1, B195151-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
18A0554-25[EB-011718], 18A0554-27[EB-011818]

Hexachlorobenzene
18A0554-25[EB-011718], 18A0554-27[EB-011818]

Pentachlorophenol
18A0554-25[EB-011718], 18A0554-27[EB-011818]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)]

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
18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)], 18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], 18A0554-25[EB-011718], 18A0554-27[EB-011818], B195151-BLK1, B195151-BS1, B195151-BSD1, B195171-BLK1, B195171-BS1, B195171-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)]

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)], 18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], 18A0554-25[EB-011718], 18A0554-27[EB-011818], B195151-BLK1, B195151-BS1, B195151-BSD1, B195171-BLK1, B195171-BS1, B195171-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

4,6-Dinitro-2-methylphenol

18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)]

4-Chloroaniline

18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)], 18A0554-18[B-216A (0-1.0)], 18A0554-21[B-216D (10-12)], 18A0554-25[EB-011718], 18A0554-27[EB-011818], B195151-BLK1, B195151-BS1, B195151-BSD1, B195171-BLK1, B195171-BS1, B195171-BSD1, B195396-BLK1, B195396-BS1, B195396-BSD1

Aniline

18A0554-04RE1[B-212A (0-0.5)], 18A0554-07RE1[B-212D (10-12)]

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

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211A (0-0.5) | Sampled: 1/17/2018 12:15

Sample ID: 18A0554-01

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	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1260 [2]	0.94	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:28	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.5	30-150		1/23/18 23:28
Decachlorobiphenyl [2]	87.4	30-150		1/23/18 23:28
Tetrachloro-m-xylene [1]	83.6	30-150		1/23/18 23:28
Tetrachloro-m-xylene [2]	89.0	30-150		1/23/18 23:28

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211A (0-0.5) | Sampled: 1/17/2018 12:15

Sample ID: 18A0554-01

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	76.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211B (3-4) | Sampled: 1/17/2018 12:17

Sample ID: 18A0554-02

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	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1260 [1]	0.11	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/19/18	1/23/18 23:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		1/23/18 23:46
Decachlorobiphenyl [2]	95.8	30-150		1/23/18 23:46
Tetrachloro-m-xylene [1]	96.5	30-150		1/23/18 23:46
Tetrachloro-m-xylene [2]	99.8	30-150		1/23/18 23:46



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211B (3-4) | Sampled: 1/17/2018 12:17

Sample ID: 18A0554-02

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	90.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211C (7-8) | Sampled: 1/17/2018 12:19

Sample ID: 18A0554-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		1/24/18 0:04
Decachlorobiphenyl [2]	96.3	30-150		1/24/18 0:04
Tetrachloro-m-xylene [1]	88.3	30-150		1/24/18 0:04
Tetrachloro-m-xylene [2]	91.5	30-150		1/24/18 0:04



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-211C (7-8) | Sampled: 1/17/2018 12:19

Sample ID: 18A0554-03

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	83.4		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) | Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

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	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Benzo(b)fluoranthene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Chloroaniline	ND	0.80	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Chloro-3-methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1	V-04, V-05	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Fluoranthene	0.34	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) | Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

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	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Pyrene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	63.2	30-130		1/24/18 12:20	
Phenol-d6	70.8	30-130		1/24/18 12:20	
Nitrobenzene-d5	61.1	30-130		1/24/18 12:20	
2-Fluorobiphenyl	43.0	30-130		1/24/18 12:20	
2,4,6-Tribromophenol	48.5	30-130		1/24/18 12:20	
p-Terphenyl-d14	60.1	30-130		1/24/18 12:20	

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) | Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

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	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1260 [2]	0.37	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	86.2	30-150				1/24/18 0:22	
Decachlorobiphenyl [2]	88.3	30-150				1/24/18 0:22	
Tetrachloro-m-xylene [1]	78.5	30-150				1/24/18 0:22	
Tetrachloro-m-xylene [2]	88.4	30-150				1/24/18 0:22	

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) | Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	12	mg/Kg dry	1		CTDEP ETPH	1/22/18	1/24/18 17:25	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	83.4	50-150				1/24/18 17:25	

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Barium	93	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 21:25	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Chromium	16	0.40	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Copper	26	0.40	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Lead	20	0.60	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	1/19/18	1/22/18 14:55	EJB
Nickel	13	0.40	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Silver	ND	0.80	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 12:34	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Vanadium	40	0.80	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW
Zinc	44	0.80	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:38	QNW

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212A (0-0.5) | Sampled: 1/17/2018 11:25

Sample ID: 18A0554-04

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	81.9		% Wt	1		SM 2540G	1/19/18	1/22/18 7:24	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212B (3-4) | Sampled: 1/17/2018 11:27

Sample ID: 18A0554-05

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	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1260 [2]	0.32	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.4	30-150		1/24/18 0:40
Decachlorobiphenyl [2]	76.0	30-150		1/24/18 0:40
Tetrachloro-m-xylene [1]	75.7	30-150		1/24/18 0:40
Tetrachloro-m-xylene [2]	84.7	30-150		1/24/18 0:40

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212B (3-4) | Sampled: 1/17/2018 11:27

Sample ID: 18A0554-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212C (7-8) | Sampled: 1/17/2018 11:29

Sample ID: 18A0554-06

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	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 0:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		1/24/18 0:58
Decachlorobiphenyl [2]	88.7	30-150		1/24/18 0:58
Tetrachloro-m-xylene [1]	93.5	30-150		1/24/18 0:58
Tetrachloro-m-xylene [2]	97.2	30-150		1/24/18 0:58

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212C (7-8) | Sampled: 1/17/2018 11:29

Sample ID: 18A0554-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	0.078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Acrylonitrile	ND	0.0047	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Bromomethane	ND	0.0078	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 15:57	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Chlorodibromomethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Chloromethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2-Dibromoethane (EDB)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,3-Dichloropropane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
2,2-Dichloropropane	ND	0.0031	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
cis-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
trans-1,3-Dichloropropene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Tetrahydrofuran	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
Vinyl Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 15:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		1/22/18 15:57
Toluene-d8	104	70-130		1/22/18 15:57
4-Bromofluorobenzene	97.8	70-130		1/22/18 15:57

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Aniline	ND	0.43	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Butylbenzylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Carbazole	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Chloroaniline	ND	0.84	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Chloro-3-methylphenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Chlorophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Chrysene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Dimethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	mg/Kg dry	1	V-34	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4-Dinitrophenol	ND	0.84	mg/Kg dry	1	V-04, V-05	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Di-n-octylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Hexachlorocyclopentadiene	ND	0.43	mg/Kg dry	1	V-19	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
3/4-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
3-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
4-Nitrophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
N-Nitrosodiphenylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Pentachloronitrobenzene	ND	0.43	mg/Kg dry	1	V-16	SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
Pyridine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/23/18	1/24/18 12:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.2	30-130		1/24/18 12:45
Phenol-d6	63.7	30-130		1/24/18 12:45
Nitrobenzene-d5	58.1	30-130		1/24/18 12:45
2-Fluorobiphenyl	50.8	30-130		1/24/18 12:45
2,4,6-Tribromophenol	51.8	30-130		1/24/18 12:45
p-Terphenyl-d14	61.0	30-130		1/24/18 12:45

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		1/24/18 1:15
Decachlorobiphenyl [2]	91.4	30-150		1/24/18 1:15
Tetrachloro-m-xylene [1]	91.2	30-150		1/24/18 1:15
Tetrachloro-m-xylene [2]	96.0	30-150		1/24/18 1:15

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	13	mg/Kg dry	1		CTDEP ETPH	1/22/18	1/23/18 15:35	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	77.6	50-150				1/23/18 15:35	

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Project Location: 107 Seldon St., Berlin, CT
Sample Description:
Work Order: 18A0554
Date Received: 1/18/2018
Field Sample #: B-212D (10-12)
Sampled: 1/17/2018 11:31
Sample ID: 18A0554-07
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Arsenic	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Barium	68	2.1	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Beryllium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 21:30	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Chromium	20	0.42	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Copper	60	0.42	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Lead	12	0.63	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Mercury	ND	0.032	mg/Kg dry	1		SW-846 7471B	1/19/18	1/23/18 9:43	EJB
Nickel	23	0.42	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Silver	ND	0.84	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 12:39	QNW
Thallium	ND	4.2	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 12:39	QNW
Vanadium	30	0.84	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW
Zinc	56	0.84	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:41	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212D (10-12) | Sampled: 1/17/2018 11:31

Sample ID: 18A0554-07

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	78.9		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212E (12-13) | Sampled: 1/17/2018 11:33

Sample ID: 18A0554-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Arsenic	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Barium	84	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 21:36	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Chromium	17	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Copper	26	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Lead	8.3	0.59	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/19/18	1/22/18 14:59	EJB
Nickel	16	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Silver	ND	0.79	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 12:43	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Vanadium	33	0.79	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW
Zinc	40	0.79	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 17:58	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-212E (12-13) | Sampled: 1/17/2018 11:33

Sample ID: 18A0554-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213A (0-0.5) | Sampled: 1/17/2018 10:38

Sample ID: 18A0554-09

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	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1260 [1]	0.22	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	97.7	30-150				1/24/18 1:33	
Decachlorobiphenyl [2]	95.8	30-150				1/24/18 1:33	
Tetrachloro-m-xylene [1]	96.0	30-150				1/24/18 1:33	
Tetrachloro-m-xylene [2]	99.5	30-150				1/24/18 1:33	



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213A (0-0.5) | Sampled: 1/17/2018 10:38

Sample ID: 18A0554-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213B (3-4) | Sampled: 1/17/2018 10:40

Sample ID: 18A0554-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 1:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	60.9	30-150				1/24/18 1:51	
Decachlorobiphenyl [2]	80.1	30-150				1/24/18 1:51	
Tetrachloro-m-xylene [1]	79.3	30-150				1/24/18 1:51	
Tetrachloro-m-xylene [2]	88.7	30-150				1/24/18 1:51	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213B (3-4) | Sampled: 1/17/2018 10:40

Sample ID: 18A0554-10

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	73.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:25	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213C (7-8) | Sampled: 1/17/2018 10:42

Sample ID: 18A0554-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 2:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		1/24/18 2:09
Decachlorobiphenyl [2]	80.8	30-150		1/24/18 2:09
Tetrachloro-m-xylene [1]	85.4	30-150		1/24/18 2:09
Tetrachloro-m-xylene [2]	90.7	30-150		1/24/18 2:09

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-213C (7-8) | Sampled: 1/17/2018 10:42

Sample ID: 18A0554-11

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	80.4		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214A (0-0.5) | Sampled: 1/17/2018 10:18

Sample ID: 18A0554-12

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	1/19/18	1/24/18 3:35	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1260 [2]	0.86	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		1/24/18 3:35
Decachlorobiphenyl [2]	85.5	30-150		1/24/18 3:35
Tetrachloro-m-xylene [1]	85.9	30-150		1/24/18 3:35
Tetrachloro-m-xylene [2]	89.8	30-150		1/24/18 3:35

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214A (0-0.5) Sampled: 1/17/2018 10:18

Sample ID: 18A0554-12

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	78.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214B (3-4) | Sampled: 1/17/2018 10:20

Sample ID: 18A0554-13

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	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 3:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		1/24/18 3:52
Decachlorobiphenyl [2]	89.8	30-150		1/24/18 3:52
Tetrachloro-m-xylene [1]	85.3	30-150		1/24/18 3:52
Tetrachloro-m-xylene [2]	90.7	30-150		1/24/18 3:52



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214B (3-4) | Sampled: 1/17/2018 10:20

Sample ID: 18A0554-13

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	80.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214C (7-8) | Sampled: 1/17/2018 10:22

Sample ID: 18A0554-14

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	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		1/24/18 4:10
Decachlorobiphenyl [2]	93.8	30-150		1/24/18 4:10
Tetrachloro-m-xylene [1]	93.8	30-150		1/24/18 4:10
Tetrachloro-m-xylene [2]	97.8	30-150		1/24/18 4:10



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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-214C (7-8) | Sampled: 1/17/2018 10:22

Sample ID: 18A0554-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215A (0-0.5) | Sampled: 1/17/2018 09:56

Sample ID: 18A0554-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1260 [1]	0.22	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:28	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	100	30-150				1/24/18 4:28	
Decachlorobiphenyl [2]	95.2	30-150				1/24/18 4:28	
Tetrachloro-m-xylene [1]	92.4	30-150				1/24/18 4:28	
Tetrachloro-m-xylene [2]	95.8	30-150				1/24/18 4:28	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215A (0-0.5) | Sampled: 1/17/2018 09:56

Sample ID: 18A0554-15

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	82.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215B (3-4) | Sampled: 1/17/2018 09:58

Sample ID: 18A0554-16

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	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1260 [1]	0.22	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 4:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	97.0	30-150				1/24/18 4:46	
Decachlorobiphenyl [2]	94.0	30-150				1/24/18 4:46	
Tetrachloro-m-xylene [1]	83.0	30-150				1/24/18 4:46	
Tetrachloro-m-xylene [2]	89.3	30-150				1/24/18 4:46	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215B (3-4) | Sampled: 1/17/2018 09:58

Sample ID: 18A0554-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	1/19/18	1/22/18 7:26	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215C (8-9) | Sampled: 1/17/2018 10:00

Sample ID: 18A0554-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.1	30-150		1/24/18 5:04
Decachlorobiphenyl [2]	92.7	30-150		1/24/18 5:04
Tetrachloro-m-xylene [1]	82.7	30-150		1/24/18 5:04
Tetrachloro-m-xylene [2]	87.1	30-150		1/24/18 5:04

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-215C (8-9) | Sampled: 1/17/2018 10:00

Sample ID: 18A0554-17

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	81.6		% Wt	1		SM 2540G	1/19/18	1/22/18 7:27	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) | Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Aniline	ND	0.40	mg/Kg dry	1	L-04	SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) | Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

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	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:32	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	31.4	30-130		1/22/18 18:32
Phenol-d6	31.1	30-130		1/22/18 18:32
Nitrobenzene-d5	30.4	30-130		1/22/18 18:32
2-Fluorobiphenyl	31.1	30-130		1/22/18 18:32
2,4,6-Tribromophenol	31.3	30-130		1/22/18 18:32
p-Terphenyl-d14	32.0	30-130		1/22/18 18:32

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) | Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

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	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1260 [1]	0.29	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		1/24/18 5:23
Decachlorobiphenyl [2]	91.2	30-150		1/24/18 5:23
Tetrachloro-m-xylene [1]	88.6	30-150		1/24/18 5:23
Tetrachloro-m-xylene [2]	91.9	30-150		1/24/18 5:23

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) | Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	12	mg/Kg dry	1		CTDEP ETPH	1/22/18	1/23/18 16:28	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	80.0	50-150				1/23/18 16:28	

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Barium	87	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 21:56	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Chromium	17	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Copper	27	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Lead	12	0.58	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/19/18	1/22/18 15:00	EJB
Nickel	17	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Vanadium	29	0.77	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW
Zinc	42	0.77	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:02	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216A (0-1.0) | Sampled: 1/17/2018 08:50

Sample ID: 18A0554-18

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	85.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:27	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216B (3-4) | Sampled: 1/17/2018 08:52

Sample ID: 18A0554-19

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	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1254 [2]	0.24	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1260 [1]	0.32	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		1/24/18 5:40
Decachlorobiphenyl [2]	86.9	30-150		1/24/18 5:40
Tetrachloro-m-xylene [1]	85.0	30-150		1/24/18 5:40
Tetrachloro-m-xylene [2]	90.2	30-150		1/24/18 5:40



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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216B (3-4) | Sampled: 1/17/2018 08:52

Sample ID: 18A0554-19

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	86.5		% Wt	1		SM 2540G	1/19/18	1/22/18 7:27	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216C (7-8) | Sampled: 1/17/2018 08:54

Sample ID: 18A0554-20

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	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 5:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	92.4	30-150				1/24/18 5:58	
Decachlorobiphenyl [2]	89.0	30-150				1/24/18 5:58	
Tetrachloro-m-xylene [1]	83.7	30-150				1/24/18 5:58	
Tetrachloro-m-xylene [2]	88.7	30-150				1/24/18 5:58	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216C (7-8) | Sampled: 1/17/2018 08:54

Sample ID: 18A0554-20

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	89.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:27	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

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	0.062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Acrylonitrile	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Bromomethane	ND	0.0062	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 12:24	MFF
2-Butanone (MEK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Carbon Disulfide	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Chlorodibromomethane	ND	0.00062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Chloroform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Chloromethane	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2-Dibromoethane (EDB)	ND	0.00062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,3-Dichloropropane	ND	0.00062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
cis-1,3-Dichloropropene	ND	0.00062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
trans-1,3-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

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	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Naphthalene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.00062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Tetrahydrofuran	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
Vinyl Chloride	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
m+p Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		1/22/18 12:24
Toluene-d8	104	70-130		1/22/18 12:24
4-Bromofluorobenzene	99.0	70-130		1/22/18 12:24

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Aniline	ND	0.40	mg/Kg dry	1	L-04	SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

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	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/19/18	1/22/18 18:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	31.5	30-130		1/22/18 18:54
Phenol-d6	31.2	30-130		1/22/18 18:54
Nitrobenzene-d5	31.9	30-130		1/22/18 18:54
2-Fluorobiphenyl	30.9	30-130		1/22/18 18:54
2,4,6-Tribromophenol	34.1	30-130		1/22/18 18:54
p-Terphenyl-d14	36.3	30-130		1/22/18 18:54

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 6:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		1/24/18 6:16
Decachlorobiphenyl [2]	98.3	30-150		1/24/18 6:16
Tetrachloro-m-xylene [1]	87.4	30-150		1/24/18 6:16
Tetrachloro-m-xylene [2]	91.9	30-150		1/24/18 6:16

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

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	1/22/18	1/23/18 14:41	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	90.0	50-150				1/23/18 14:41	

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Barium	97	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 22:01	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Chromium	20	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Copper	90	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Lead	9.7	0.57	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/19/18	1/22/18 15:02	EJB
Nickel	22	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Silver	ND	0.76	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 13:11	QNW
Thallium	ND	3.8	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 13:11	QNW
Vanadium	32	0.76	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW
Zinc	51	0.76	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:05	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216D (10-12) | Sampled: 1/17/2018 08:56

Sample ID: 18A0554-21

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:27	MRL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216E (13-14) | Sampled: 1/17/2018 08:58

Sample ID: 18A0554-22

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.7	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Barium	90	1.9	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 22:07	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Chromium	23	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Copper	88	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Lead	12	0.57	mg/Kg dry	1	M-10	SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/19/18	1/22/18 15:08	EJB
Nickel	24	0.38	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Silver	ND	0.75	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 13:15	QNW
Thallium	ND	3.8	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/19/18	1/24/18 13:15	QNW
Vanadium	31	0.75	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW
Zinc	56	0.75	mg/Kg dry	1		SW-846 6010C-D	1/19/18	1/23/18 18:08	QNW

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: B-216E (13-14) | Sampled: 1/17/2018 08:58

Sample ID: 18A0554-22

Sample Matrix: Soil

Conventional 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	1/19/18	1/22/18 7:28	MRL



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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: DUP-1 | Sampled: 1/17/2018 00:00

Sample ID: 18A0554-23

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1260 [2]	0.26	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 13:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		1/24/18 13:46
Decachlorobiphenyl [2]	91.4	30-150		1/24/18 13:46
Tetrachloro-m-xylene [1]	88.1	30-150		1/24/18 13:46
Tetrachloro-m-xylene [2]	91.3	30-150		1/24/18 13:46



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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: DUP-1 | Sampled: 1/17/2018 00:00

Sample ID: 18A0554-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:28	MRL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: DUP-2 | Sampled: 1/17/2018 00:00

Sample ID: 18A0554-24

Sample Matrix: Soil

Polychlorinated 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	1/19/18	1/24/18 14:04	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/19/18	1/24/18 14:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.0	30-150		1/24/18 14:04
Decachlorobiphenyl [2]	94.7	30-150		1/24/18 14:04
Tetrachloro-m-xylene [1]	92.2	30-150		1/24/18 14:04
Tetrachloro-m-xylene [2]	95.9	30-150		1/24/18 14:04

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

Project Location: 107 Seldon St., Berlin, CT
Sample Description:
Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: DUP-2
Sampled: 1/17/2018 00:00

Sample ID: 18A0554-24

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:28	MRL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	1/19/18	1/19/18 12:46	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Chloromethane	ND	0.60	µg/L	1	L-03	SW-846 8260C	1/19/18	1/19/18 12:46	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	1/19/18	1/19/18 12:46	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 12:46	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		1/19/18 12:46
Toluene-d8	101	70-130		1/19/18 12:46
4-Bromofluorobenzene	97.7	70-130		1/19/18 12:46

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Aniline	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Isophorone	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	1/19/18	1/22/18 13:38	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Phenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 13:38	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.1	15-110		1/22/18 13:38
Phenol-d6	29.2	15-110		1/22/18 13:38
Nitrobenzene-d5	74.5	30-130		1/22/18 13:38
2-Fluorobiphenyl	75.8	30-130		1/22/18 13:38
2,4,6-Tribromophenol	77.7	15-110		1/22/18 13:38
p-Terphenyl-d14	76.5	30-130		1/22/18 13:38

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	1/22/18	1/24/18 17:27	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	46.1	30-150		1/24/18 17:27
Decachlorobiphenyl [2]	38.7	30-150		1/24/18 17:27
Tetrachloro-m-xylene [1]	92.1	30-150		1/24/18 17:27
Tetrachloro-m-xylene [2]	96.9	30-150		1/24/18 17:27

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.084	0.075	mg/L	1		CTDEP ETPH	1/23/18	1/24/18 12:43	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	97.1	50-150				1/24/18 12:43	

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011718 | Sampled: 1/17/2018 16:00

Sample ID: 18A0554-25

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	1/22/18	1/25/18 13:18	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/23/18	1/24/18 10:22	EJB
Nickel	ND	25	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	1/25/18	1/26/18 9:42	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	1/22/18	1/25/18 13:18	WSD

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: TB-011718 | Sampled: 1/17/2018 00:00

Sample ID: 18A0554-26

Sample Matrix: 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	1/19/18	1/19/18 14:20	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Chloromethane	ND	0.60	µg/L	1	L-03	SW-846 8260C	1/19/18	1/19/18 14:20	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: TB-011718 | Sampled: 1/17/2018 00:00

Sample ID: 18A0554-26

Sample Matrix: 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	1/19/18	1/19/18 14:20	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 14:20	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		1/19/18 14:20
Toluene-d8	100	70-130		1/19/18 14:20
4-Bromofluorobenzene	97.2	70-130		1/19/18 14:20

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

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	1/19/18	1/19/18 13:17	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Chloromethane	ND	0.60	µg/L	1	L-03	SW-846 8260C	1/19/18	1/19/18 13:17	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

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	1/19/18	1/19/18 13:17	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/19/18	1/19/18 13:17	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		1/19/18 13:17
Toluene-d8	101	70-130		1/19/18 13:17
4-Bromofluorobenzene	99.4	70-130		1/19/18 13:17

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

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	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Aniline	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Isophorone	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

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	1/19/18	1/22/18 14:00	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Phenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	1/19/18	1/22/18 14:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.3	15-110		1/22/18 14:00
Phenol-d6	31.6	15-110		1/22/18 14:00
Nitrobenzene-d5	84.5	30-130		1/22/18 14:00
2-Fluorobiphenyl	82.2	30-130		1/22/18 14:00
2,4,6-Tribromophenol	83.9	15-110		1/22/18 14:00
p-Terphenyl-d14	86.8	30-130		1/22/18 14:00

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

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	1/22/18	1/24/18 17:40	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	1/22/18	1/24/18 17:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.7	30-150		1/24/18 17:40
Decachlorobiphenyl [2]	57.0	30-150		1/24/18 17:40
Tetrachloro-m-xylene [1]	93.2	30-150		1/24/18 17:40
Tetrachloro-m-xylene [2]	99.1	30-150		1/24/18 17:40

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18A0554

Date Received: 1/18/2018

Field Sample #: EB-011818 | Sampled: 1/18/2018 10:05

Sample ID: 18A0554-27

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.34	0.069	mg/L	1		CTDEP ETPH	1/23/18	1/24/18 20:22	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		1/24/18 20:22

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
18A0554-04 [B-212A (0-0.5)]	B195260	30.3	1.00	01/22/18
18A0554-07 [B-212D (10-12)]	B195260	30.2	1.00	01/22/18
18A0554-18 [B-216A (0-1.0)]	B195260	30.4	1.00	01/22/18
18A0554-21 [B-216D (10-12)]	B195260	30.5	1.00	01/22/18

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195343	1000	1.00	01/23/18
18A0554-27 [EB-011818]	B195343	980	0.900	01/23/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0554-01 [B-211A (0-0.5)]	B195159	01/19/18
18A0554-02 [B-211B (3-4)]	B195159	01/19/18
18A0554-03 [B-211C (7-8)]	B195159	01/19/18
18A0554-04 [B-212A (0-0.5)]	B195159	01/19/18
18A0554-05 [B-212B (3-4)]	B195159	01/19/18
18A0554-06 [B-212C (7-8)]	B195159	01/19/18
18A0554-07 [B-212D (10-12)]	B195159	01/19/18
18A0554-08 [B-212E (12-13)]	B195159	01/19/18
18A0554-09 [B-213A (0-0.5)]	B195159	01/19/18
18A0554-10 [B-213B (3-4)]	B195159	01/19/18
18A0554-11 [B-213C (7-8)]	B195159	01/19/18
18A0554-12 [B-214A (0-0.5)]	B195159	01/19/18
18A0554-13 [B-214B (3-4)]	B195159	01/19/18
18A0554-14 [B-214C (7-8)]	B195159	01/19/18
18A0554-15 [B-215A (0-0.5)]	B195159	01/19/18
18A0554-16 [B-215B (3-4)]	B195159	01/19/18
18A0554-17 [B-215C (8-9)]	B195159	01/19/18
18A0554-18 [B-216A (0-1.0)]	B195159	01/19/18
18A0554-19 [B-216B (3-4)]	B195159	01/19/18
18A0554-20 [B-216C (7-8)]	B195159	01/19/18
18A0554-21 [B-216D (10-12)]	B195159	01/19/18
18A0554-22 [B-216E (13-14)]	B195159	01/19/18
18A0554-23 [DUP-1]	B195159	01/19/18
18A0554-24 [DUP-2]	B195159	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-04 [B-212A (0-0.5)]	B195182	1.52	50.0	01/19/18
18A0554-07 [B-212D (10-12)]	B195182	1.50	50.0	01/19/18
18A0554-08 [B-212E (12-13)]	B195182	1.51	50.0	01/19/18
18A0554-18 [B-216A (0-1.0)]	B195182	1.52	50.0	01/19/18
18A0554-21 [B-216D (10-12)]	B195182	1.53	50.0	01/19/18
18A0554-22 [B-216E (13-14)]	B195182	1.53	50.0	01/19/18

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 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195267	50.0	50.0	01/22/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25RE1 [EB-011718]	B195568	50.0	50.0	01/25/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195292	6.00	6.00	01/23/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-04 [B-212A (0-0.5)]	B195183	0.624	50.0	01/19/18
18A0554-07RE1 [B-212D (10-12)]	B195183	0.600	50.0	01/19/18
18A0554-08 [B-212E (12-13)]	B195183	0.593	50.0	01/19/18
18A0554-18 [B-216A (0-1.0)]	B195183	0.579	50.0	01/19/18
18A0554-21 [B-216D (10-12)]	B195183	0.578	50.0	01/19/18
18A0554-22 [B-216E (13-14)]	B195183	0.575	50.0	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-23 [DUP-1]	B195176	10.1	10.0	01/19/18
18A0554-24 [DUP-2]	B195176	10.1	10.0	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-01 [B-211A (0-0.5)]	B195178	10.0	10.0	01/19/18
18A0554-02 [B-211B (3-4)]	B195178	10.1	10.0	01/19/18
18A0554-03 [B-211C (7-8)]	B195178	10.0	10.0	01/19/18
18A0554-04 [B-212A (0-0.5)]	B195178	10.0	10.0	01/19/18
18A0554-05 [B-212B (3-4)]	B195178	10.1	10.0	01/19/18
18A0554-06 [B-212C (7-8)]	B195178	10.3	10.0	01/19/18
18A0554-07 [B-212D (10-12)]	B195178	10.1	10.0	01/19/18
18A0554-09 [B-213A (0-0.5)]	B195178	10.4	10.0	01/19/18
18A0554-10 [B-213B (3-4)]	B195178	10.1	10.0	01/19/18
18A0554-11 [B-213C (7-8)]	B195178	10.0	10.0	01/19/18
18A0554-12 [B-214A (0-0.5)]	B195178	10.0	10.0	01/19/18
18A0554-13 [B-214B (3-4)]	B195178	10.2	10.0	01/19/18
18A0554-14 [B-214C (7-8)]	B195178	10.3	10.0	01/19/18
18A0554-15 [B-215A (0-0.5)]	B195178	10.5	10.0	01/19/18
18A0554-16 [B-215B (3-4)]	B195178	10.1	10.0	01/19/18
18A0554-17 [B-215C (8-9)]	B195178	10.1	10.0	01/19/18
18A0554-18 [B-216A (0-1.0)]	B195178	10.1	10.0	01/19/18
18A0554-19 [B-216B (3-4)]	B195178	10.2	10.0	01/19/18

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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-20 [B-216C (7-8)]	B195178	10.2	10.0	01/19/18
18A0554-21 [B-216D (10-12)]	B195178	10.4	10.0	01/19/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195278	1000	10.0	01/22/18
18A0554-27 [EB-011818]	B195278	970	9.50	01/22/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-07 [B-212D (10-12)]	B195288	8.15	10.0	01/22/18
18A0554-21 [B-216D (10-12)]	B195288	9.41	10.0	01/22/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195162	5	5.00	01/19/18
18A0554-26 [TB-011718]	B195162	5	5.00	01/19/18
18A0554-27 [EB-011818]	B195162	5	5.00	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-18 [B-216A (0-1.0)]	B195151	30.0	1.00	01/19/18
18A0554-21 [B-216D (10-12)]	B195151	30.0	1.00	01/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0554-04RE1 [B-212A (0-0.5)]	B195396	30.3	1.00	01/23/18
18A0554-07RE1 [B-212D (10-12)]	B195396	30.0	1.00	01/23/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0554-25 [EB-011718]	B195171	1000	1.00	01/19/18
18A0554-27 [EB-011818]	B195171	1000	1.00	01/19/18

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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 B195162 - SW-846 5030B										
Blank (B195162-BLK1)				Prepared & Analyzed: 01/19/18						
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	2.0	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							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							L-03
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	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	5.0	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							

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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 B195162 - SW-846 5030B											
Blank (B195162-BLK1)				Prepared & Analyzed: 01/19/18							
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	1.0	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								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	3.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.9*		µg/L	25.0		108		70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1		70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.6		70-130			
LCS (B195162-BS1)				Prepared & Analyzed: 01/19/18							
Acetone	146	10	µg/L	100		**146**	*	70-130			L-01, V-20
Acrylonitrile	12.3	2.0	µg/L	10.0		123		70-130			
Benzene	10.9	0.50	µg/L	10.0		109		70-130			
Bromobenzene	8.85	0.50	µg/L	10.0		88.5		70-130			
Bromodichloromethane	9.94	0.50	µg/L	10.0		99.4		70-130			
Bromoform	9.46	2.0	µg/L	10.0		94.6		70-130			
Bromomethane	8.75	2.0	µg/L	10.0		87.5		70-130			V-34
2-Butanone (MEK)	120	5.0	µg/L	100		120		70-130			
n-Butylbenzene	9.93	1.0	µg/L	10.0		99.3		70-130			
sec-Butylbenzene	9.45	1.0	µg/L	10.0		94.5		70-130			
tert-Butylbenzene	9.28	1.0	µg/L	10.0		92.8		70-130			
Carbon Disulfide	111	5.0	µg/L	100		111		70-130			
Carbon Tetrachloride	11.0	0.50	µg/L	10.0		110		70-130			
Chlorobenzene	9.30	0.50	µg/L	10.0		93.0		70-130			
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102		70-130			
Chloroethane	10.9	0.50	µg/L	10.0		109		70-130			
Chloroform	11.3	0.50	µg/L	10.0		113		70-130			
Chloromethane	6.71	0.60	µg/L	10.0		**67.1**	*	70-130			L-03, V-34
2-Chlorotoluene	9.95	0.50	µg/L	10.0		99.5		70-130			
4-Chlorotoluene	9.68	0.50	µg/L	10.0		96.8		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.52	5.0	µg/L	10.0		95.2		70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130			
Dibromomethane	10.8	0.50	µg/L	10.0		108		70-130			
1,2-Dichlorobenzene	9.90	0.50	µg/L	10.0		99.0		70-130			
1,3-Dichlorobenzene	9.92	0.50	µg/L	10.0		99.2		70-130			
1,4-Dichlorobenzene	9.83	0.50	µg/L	10.0		98.3		70-130			
trans-1,4-Dichloro-2-butene	9.69	2.0	µg/L	10.0		96.9		70-130			
Dichlorodifluoromethane (Freon 12)	8.05	0.50	µg/L	10.0		80.5		70-130			V-34
1,1-Dichloroethane	11.0	0.50	µg/L	10.0		110		70-130			
1,2-Dichloroethane	9.78	0.50	µg/L	10.0		97.8		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 B195162 - SW-846 5030B										
LCS (B195162-BS1)				Prepared & Analyzed: 01/19/18						
1,1-Dichloroethylene	10.9	0.50	µg/L	10.0		109	70-130			
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	9.92	0.50	µg/L	10.0		99.2	70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
2,2-Dichloropropane	12.2	0.50	µg/L	10.0		122	70-130			V-20
1,1-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130			
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130			
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130			
Ethylbenzene	9.65	0.50	µg/L	10.0		96.5	70-130			
Hexachlorobutadiene	9.38	0.60	µg/L	10.0		93.8	70-130			
2-Hexanone (MBK)	108	5.0	µg/L	100		108	70-130			
Isopropylbenzene (Cumene)	9.65	0.50	µg/L	10.0		96.5	70-130			
p-Isopropyltoluene (p-Cymene)	9.35	0.50	µg/L	10.0		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	11.3	0.50	µg/L	10.0		113	70-130			
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130			
4-Methyl-2-pentanone (MIBK)	109	5.0	µg/L	100		109	70-130			
Naphthalene	9.25	5.0	µg/L	10.0		92.5	70-130			
n-Propylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Styrene	9.73	1.0	µg/L	10.0		97.3	70-130			
1,1,1,2-Tetrachloroethane	9.79	0.50	µg/L	10.0		97.9	70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Tetrachloroethylene	9.99	1.0	µg/L	10.0		99.9	70-130			
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130			
Toluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2,3-Trichlorobenzene	9.25	2.0	µg/L	10.0		92.5	70-130			
1,2,4-Trichlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
1,1,1-Trichloroethane	10.9	0.50	µg/L	10.0		109	70-130			
1,1,2-Trichloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0		112	70-130			
1,2,3-Trichloropropane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8	0.50	µg/L	10.0		118	70-130			
1,2,4-Trimethylbenzene	9.47	0.50	µg/L	10.0		94.7	70-130			
1,3,5-Trimethylbenzene	9.79	0.50	µg/L	10.0		97.9	70-130			
Vinyl Chloride	10.2	1.0	µg/L	10.0		102	70-130			
m+p Xylene	19.2	2.0	µg/L	20.0		96.1	70-130			
o-Xylene	9.62	1.0	µg/L	10.0		96.2	70-130			
Xylenes (total)	28.8	3.0	µg/L				0-200			
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	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 B195288 - SW-846 5035										
Blank (B195288-BLK1)				Prepared & Analyzed: 01/22/18						
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							V-34
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							L-03, V-05
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 B195288 - SW-846 5035										
Blank (B195288-BLK1)				Prepared & Analyzed: 01/22/18						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0565*		mg/Kg wet	0.0500		113	70-130			
Surrogate: Toluene-d8	*0.0519*		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/Kg wet	0.0500		99.3	70-130			
LCS (B195288-BS1)				Prepared & Analyzed: 01/22/18						
Acetone	0.258	0.10	mg/Kg wet	0.200		129	70-130			
Acrylonitrile	0.0206	0.0060	mg/Kg wet	0.0200		103	70-130			
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Bromobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
Bromodichloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0205	0.010	mg/Kg wet	0.0200		102	70-130			V-34
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-130			
n-Butylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
sec-Butylbenzene	0.0161	0.0020	mg/Kg wet	0.0200		80.7	70-130			
tert-Butylbenzene	0.0158	0.0020	mg/Kg wet	0.0200		79.2	70-130			
Carbon Disulfide	0.185	0.0060	mg/Kg wet	0.200		92.3	70-130			
Carbon Tetrachloride	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Chlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
Chlorodibromomethane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
Chloroethane	0.0174	0.020	mg/Kg wet	0.0200		87.0	70-130			
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0161	0.010	mg/Kg wet	0.0200		80.3	70-130			
2-Chlorotoluene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130			
4-Chlorotoluene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dibromoethane (EDB)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,3-Dichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
1,4-Dichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130			
trans-1,4-Dichloro-2-butene	0.0172	0.0040	mg/Kg wet	0.0200		86.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.0206	0.020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
1,1-Dichloroethylene	0.0205	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 B195288 - SW-846 5035											
LCS (B195288-BS1)				Prepared & Analyzed: 01/22/18							
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
trans-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130			
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130			
1,3-Dichloropropane	0.0223	0.0010	mg/Kg wet	0.0200		112		70-130			
2,2-Dichloropropane	0.0115	0.0020	mg/Kg wet	0.0200		**57.3**	*	70-130			L-03, V-05
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.8		70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5		70-130			
Ethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130			
Hexachlorobutadiene	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130			
2-Hexanone (MBK)	0.254	0.020	mg/Kg wet	0.200		127		70-130			
Isopropylbenzene (Cumene)	0.0167	0.0020	mg/Kg wet	0.0200		83.3		70-130			
p-Isopropyltoluene (p-Cymene)	0.0163	0.0020	mg/Kg wet	0.0200		81.7		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.7		70-130			
Methylene Chloride	0.0200	0.020	mg/Kg wet	0.0200		100		70-130			
4-Methyl-2-pentanone (MIBK)	0.246	0.020	mg/Kg wet	0.200		123		70-130			
Naphthalene	0.0184	0.0040	mg/Kg wet	0.0200		91.9		70-130			
n-Propylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130			
Styrene	0.0179	0.0020	mg/Kg wet	0.0200		89.4		70-130			
1,1,1,2-Tetrachloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130			
1,1,2,2-Tetrachloroethane	0.0200	0.0010	mg/Kg wet	0.0200		99.9		70-130			
Tetrachloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130			
Tetrahydrofuran	0.0230	0.010	mg/Kg wet	0.0200		115		70-130			
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.2		70-130			
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130			
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-130			
1,1,1-Trichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130			
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130			
Trichlorofluoromethane (Freon 11)	0.0215	0.010	mg/Kg wet	0.0200		108		70-130			
1,2,3-Trichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0207	0.010	mg/Kg wet	0.0200		103		70-130			
1,2,4-Trimethylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.9		70-130			
1,3,5-Trimethylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6		70-130			
Vinyl Chloride	0.0196	0.010	mg/Kg wet	0.0200		97.8		70-130			
m+p Xylene	0.0342	0.0040	mg/Kg wet	0.0400		85.4		70-130			
o-Xylene	0.0170	0.0020	mg/Kg wet	0.0200		84.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0600*		mg/Kg wet	0.0500		120		70-130			
Surrogate: Toluene-d8	*0.0509*		mg/Kg wet	0.0500		102		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0515*		mg/Kg wet	0.0500		103		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 B195151 - SW-846 3546										
Blank (B195151-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							L-04
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, V-34
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							L-04, V-34
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 B195151 - SW-846 3546												
Blank (B195151-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18								
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	*3.14*		mg/Kg wet	6.67		47.0		30-130				
Surrogate: Phenol-d6	*3.14*		mg/Kg wet	6.67		47.1		30-130				
Surrogate: Nitrobenzene-d5	*1.72*		mg/Kg wet	3.33		51.5		30-130				
Surrogate: 2-Fluorobiphenyl	*1.60*		mg/Kg wet	3.33		48.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.54*		mg/Kg wet	6.67		53.1		30-130				
Surrogate: p-Terphenyl-d14	*1.87*		mg/Kg wet	3.33		56.2		30-130				
LCS (B195151-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18								
Acenaphthene	0.885	0.17	mg/Kg wet	1.67		53.1		40-140				
Acenaphthylene	0.849	0.17	mg/Kg wet	1.67		50.9		40-140				
Aniline	0.549	0.34	mg/Kg wet	1.67		**33.0**	*	40-140			L-04	†
Anthracene	0.948	0.17	mg/Kg wet	1.67		56.9		40-140				
Benzo(a)anthracene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140				
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4		40-140				
Benzo(b)fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3		40-140				
Benzo(g,h,i)perylene	0.973	0.17	mg/Kg wet	1.67		58.4		40-140				
Benzo(k)fluoranthene	0.916	0.17	mg/Kg wet	1.67		55.0		40-140				
Bis(2-chloroethoxy)methane	0.922	0.34	mg/Kg wet	1.67		55.3		40-140				
Bis(2-chloroethyl)ether	0.798	0.34	mg/Kg wet	1.67		47.9		40-140				
Bis(2-chloroisopropyl)ether	0.859	0.34	mg/Kg wet	1.67		51.5		40-140				
Bis(2-Ethylhexyl)phthalate	0.936	0.34	mg/Kg wet	1.67		56.2		40-140				
4-Bromophenylphenylether	0.916	0.34	mg/Kg wet	1.67		55.0		40-140				
Butylbenzylphthalate	0.942	0.34	mg/Kg wet	1.67		56.5		40-140				
Carbazole	0.960	0.17	mg/Kg wet	1.67		57.6		40-140				
4-Chloroaniline	0.521	0.66	mg/Kg wet	1.67		**31.3**	*	40-140			L-04, V-34	†
4-Chloro-3-methylphenol	0.878	0.66	mg/Kg wet	1.67		52.7		30-130				
2-Chloronaphthalene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140				
2-Chlorophenol	0.803	0.34	mg/Kg wet	1.67		48.2		30-130				
4-Chlorophenylphenylether	0.890	0.34	mg/Kg wet	1.67		53.4		40-140				
Chrysene	0.927	0.17	mg/Kg wet	1.67		55.6		40-140				
Dibenz(a,h)anthracene	0.967	0.17	mg/Kg wet	1.67		58.0		40-140				
Dibenzofuran	0.886	0.34	mg/Kg wet	1.67		53.2		40-140				
Di-n-butylphthalate	0.876	0.34	mg/Kg wet	1.67		52.5		40-140				
3,3-Dichlorobenzidine	0.607	0.17	mg/Kg wet	1.67		**36.4**	*	40-140			L-04, V-34	†
2,4-Dichlorophenol	0.822	0.34	mg/Kg wet	1.67		49.3		30-130				
Diethylphthalate	0.862	0.34	mg/Kg wet	1.67		51.7		40-140				
2,4-Dimethylphenol	0.808	0.34	mg/Kg wet	1.67		48.5		30-130				
Dimethylphthalate	0.911	0.34	mg/Kg wet	1.67		54.6		40-140				
4,6-Dinitro-2-methylphenol	0.863	0.34	mg/Kg wet	1.67		51.8		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195151 - SW-846 3546											
LCS (B195151-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18							
2,4-Dinitrophenol	0.806	0.66	mg/Kg wet	1.67		48.4	30-130				
2,4-Dinitrotoluene	0.969	0.34	mg/Kg wet	1.67		58.2	40-140				
2,6-Dinitrotoluene	0.998	0.34	mg/Kg wet	1.67		59.9	40-140				
Di-n-octylphthalate	0.857	0.34	mg/Kg wet	1.67		51.4	40-140				
Fluoranthene	0.942	0.17	mg/Kg wet	1.67		56.5	40-140				
Fluorene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140				
Hexachlorobenzene	0.904	0.34	mg/Kg wet	1.67		54.2	40-140				
Hexachlorobutadiene	0.774	0.34	mg/Kg wet	1.67		46.4	40-140				
Hexachlorocyclopentadiene	0.781	0.34	mg/Kg wet	1.67		46.8	30-140				
Hexachloroethane	0.734	0.34	mg/Kg wet	1.67		44.1	40-140				
Indeno(1,2,3-cd)pyrene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140				
Isophorone	0.864	0.34	mg/Kg wet	1.67		51.9	40-140				
2-Methylnaphthalene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140				
2-Methylphenol	0.815	0.34	mg/Kg wet	1.67		48.9	30-130				
3/4-Methylphenol	0.822	0.34	mg/Kg wet	1.67		49.3	30-130				
Naphthalene	0.802	0.17	mg/Kg wet	1.67		48.1	40-140				
2-Nitroaniline	1.12	0.34	mg/Kg wet	1.67		67.4	40-140				
3-Nitroaniline	0.869	0.34	mg/Kg wet	1.67		52.1	40-140				†
4-Nitroaniline	0.988	0.34	mg/Kg wet	1.67		59.3	40-140				
Nitrobenzene	0.818	0.34	mg/Kg wet	1.67		49.1	40-140				
2-Nitrophenol	0.861	0.34	mg/Kg wet	1.67		51.7	30-130				
4-Nitrophenol	0.912	0.66	mg/Kg wet	1.67		54.7	10-130				
N-Nitrosodiphenylamine	1.06	0.34	mg/Kg wet	1.67		63.7	40-140				
N-Nitrosodi-n-propylamine	0.807	0.34	mg/Kg wet	1.67		48.4	40-140				
Pentachloronitrobenzene	0.936	0.34	mg/Kg wet	1.67		56.1	40-140			V-16	
Pentachlorophenol	0.919	0.34	mg/Kg wet	1.67		55.1	30-130				
Phenanthrene	0.931	0.17	mg/Kg wet	1.67		55.8	40-140				
Phenol	0.799	0.34	mg/Kg wet	1.67		47.9	20-130				
Pyrene	0.916	0.17	mg/Kg wet	1.67		55.0	40-140				
Pyridine	0.608	0.34	mg/Kg wet	1.67		36.5	10-140				†
1,2,4,5-Tetrachlorobenzene	0.821	0.34	mg/Kg wet	1.67		49.2	40-140				
1,2,4-Trichlorobenzene	0.791	0.34	mg/Kg wet	1.67		47.4	40-140				
2,4,5-Trichlorophenol	0.859	0.34	mg/Kg wet	1.67		51.5	30-130				
2,4,6-Trichlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8	30-130				
Surrogate: 2-Fluorophenol	*3.68*		mg/Kg wet	6.67		55.3	30-130				
Surrogate: Phenol-d6	*3.51*		mg/Kg wet	6.67		52.6	30-130				
Surrogate: Nitrobenzene-d5	*1.77*		mg/Kg wet	3.33		53.2	30-130				
Surrogate: 2-Fluorobiphenyl	*1.86*		mg/Kg wet	3.33		55.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.02*		mg/Kg wet	6.67		60.2	30-130				
Surrogate: p-Terphenyl-d14	*2.00*		mg/Kg wet	3.33		60.0	30-130				
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Acenaphthene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140	8.96	30		
Acenaphthylene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	8.97	30		
Aniline	0.635	0.34	mg/Kg wet	1.67		**38.1**	* 40-140	14.5	50	L-04	† ‡
Anthracene	1.03	0.17	mg/Kg wet	1.67		61.5	40-140	7.87	30		
Benzo(a)anthracene	0.981	0.17	mg/Kg wet	1.67		58.9	40-140	8.09	30		
Benzo(a)pyrene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140	5.89	30		
Benzo(b)fluoranthene	0.945	0.17	mg/Kg wet	1.67		56.7	40-140	6.11	30		
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	8.90	30		
Benzo(k)fluoranthene	0.950	0.17	mg/Kg wet	1.67		57.0	40-140	3.61	30		
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.67		62.7	40-140	12.5	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 B195151 - SW-846 3546												
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18								
Bis(2-chloroethyl)ether	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	14.6	30		
Bis(2-chloroisopropyl)ether	1.01	0.34	mg/Kg wet	1.67		60.5		40-140	16.1	30		
Bis(2-Ethylhexyl)phthalate	0.975	0.34	mg/Kg wet	1.67		58.5		40-140	4.08	30		
4-Bromophenylphenylether	0.956	0.34	mg/Kg wet	1.67		57.4		40-140	4.27	30		
Butylbenzylphthalate	1.01	0.34	mg/Kg wet	1.67		60.4		40-140	6.57	30		
Carbazole	0.999	0.17	mg/Kg wet	1.67		60.0		40-140	3.98	30		
4-Chloroaniline	0.544	0.66	mg/Kg wet	1.67		**32.6**	*	40-140	4.19	30	L-04, V-34	†
4-Chloro-3-methylphenol	0.873	0.66	mg/Kg wet	1.67		52.4		30-130	0.647	30		
2-Chloronaphthalene	0.859	0.34	mg/Kg wet	1.67		51.6		40-140	11.3	30		
2-Chlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130	11.1	30		
4-Chlorophenylphenylether	0.959	0.34	mg/Kg wet	1.67		57.6		40-140	7.54	30		
Chrysene	0.975	0.17	mg/Kg wet	1.67		58.5		40-140	5.08	30		
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140	8.83	30		
Dibenzofuran	0.961	0.34	mg/Kg wet	1.67		57.7		40-140	8.12	30		
Di-n-butylphthalate	0.946	0.34	mg/Kg wet	1.67		56.8		40-140	7.76	30		
3,3-Dichlorobenzidine	0.642	0.17	mg/Kg wet	1.67		**38.5**	*	40-140	5.60	30	L-04, V-34	† ‡
2,4-Dichlorophenol	0.906	0.34	mg/Kg wet	1.67		54.4		30-130	9.68	30		
Diethylphthalate	0.927	0.34	mg/Kg wet	1.67		55.6		40-140	7.23	30		
2,4-Dimethylphenol	0.906	0.34	mg/Kg wet	1.67		54.4		30-130	11.5	30		
Dimethylphthalate	0.969	0.34	mg/Kg wet	1.67		58.1		40-140	6.21	50		
4,6-Dinitro-2-methylphenol	0.929	0.34	mg/Kg wet	1.67		55.7		30-130	7.29	50		
2,4-Dinitrophenol	0.816	0.66	mg/Kg wet	1.67		48.9		30-130	1.15	50		
2,4-Dinitrotoluene	1.08	0.34	mg/Kg wet	1.67		64.6		40-140	10.4	30		
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.7		40-140	6.24	30		
Di-n-octylphthalate	0.923	0.34	mg/Kg wet	1.67		55.4		40-140	7.45	30		
Fluoranthene	0.955	0.17	mg/Kg wet	1.67		57.3		40-140	1.30	30		
Fluorene	0.964	0.17	mg/Kg wet	1.67		57.8		40-140	8.70	30		
Hexachlorobenzene	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	3.19	30		
Hexachlorobutadiene	0.880	0.34	mg/Kg wet	1.67		52.8		40-140	12.8	30		
Hexachlorocyclopentadiene	0.908	0.34	mg/Kg wet	1.67		54.5		30-140	15.0	50		
Hexachloroethane	0.832	0.34	mg/Kg wet	1.67		49.9		40-140	12.5	50		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.7		40-140	8.59	50		
Isophorone	0.994	0.34	mg/Kg wet	1.67		59.7		40-140	14.0	30		
2-Methylnaphthalene	0.916	0.17	mg/Kg wet	1.67		55.0		40-140	3.59	30		
2-Methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3		30-130	14.1	30		
3/4-Methylphenol	0.922	0.34	mg/Kg wet	1.67		55.3		30-130	11.5	30		
Naphthalene	0.915	0.17	mg/Kg wet	1.67		54.9		40-140	13.1	30		
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		75.1		40-140	10.8	30		
3-Nitroaniline	0.916	0.34	mg/Kg wet	1.67		55.0		40-140	5.27	30		†
4-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	7.75	30		
Nitrobenzene	0.948	0.34	mg/Kg wet	1.67		56.9		40-140	14.7	30		
2-Nitrophenol	1.01	0.34	mg/Kg wet	1.67		60.4		30-130	15.5	30		
4-Nitrophenol	1.03	0.66	mg/Kg wet	1.67		61.8		10-130	12.1	50		‡
N-Nitrosodiphenylamine	1.17	0.34	mg/Kg wet	1.67		70.0		40-140	9.34	30		
N-Nitrosodi-n-propylamine	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	11.0	30		
Pentachloronitrobenzene	0.974	0.34	mg/Kg wet	1.67		58.4		40-140	3.98	30	V-16	
Pentachlorophenol	0.982	0.34	mg/Kg wet	1.67		58.9		30-130	6.63	50		
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140	8.01	30		
Phenol	0.916	0.34	mg/Kg wet	1.67		55.0		20-130	13.7	30		
Pyrene	0.993	0.17	mg/Kg wet	1.67		59.6		40-140	8.07	30		
Pyridine	0.618	0.34	mg/Kg wet	1.67		37.1		10-140	1.58	50		†
1,2,4,5-Tetrachlorobenzene	0.915	0.34	mg/Kg wet	1.67		54.9		40-140	10.8	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 B195151 - SW-846 3546										
LCS Dup (B195151-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18						
1,2,4-Trichlorobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	11.1	30	
2,4,5-Trichlorophenol	0.942	0.34	mg/Kg wet	1.67		56.5	30-130	9.26	30	
2,4,6-Trichlorophenol	0.991	0.34	mg/Kg wet	1.67		59.5	30-130	9.95	50	
Surrogate: 2-Fluorophenol	*3.81*		mg/Kg wet	6.67		57.2	30-130			
Surrogate: Phenol-d6	*3.87*		mg/Kg wet	6.67		58.0	30-130			
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.03*		mg/Kg wet	3.33		61.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.22*		mg/Kg wet	6.67		63.3	30-130			
Surrogate: p-Terphenyl-d14	*2.08*		mg/Kg wet	3.33		62.5	30-130			
Batch B195171 - SW-846 3510C										
Blank (B195171-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	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	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
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							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							V-34
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							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	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 B195171 - SW-846 3510C											
Blank (B195171-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Hexachloroethane	ND	10	µg/L								
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L								
Isophorone	ND	10	µg/L								
2-Methylnaphthalene	ND	5.0	µg/L								
2-Methylphenol	ND	10	µg/L								
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	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	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	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	*92.4*		µg/L	200		46.2	15-110				
Surrogate: Phenol-d6	*63.1*		µg/L	200		31.6	15-110				
Surrogate: Nitrobenzene-d5	*84.1*		µg/L	100		84.1	30-130				
Surrogate: 2-Fluorobiphenyl	*77.8*		µg/L	100		77.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*161*		µg/L	200		80.4	15-110				
Surrogate: p-Terphenyl-d14	*74.6*		µg/L	100		74.6	30-130				
LCS (B195171-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Acenaphthene	38.1	5.0	µg/L	50.0		76.3	40-140				
Acenaphthylene	35.8	5.0	µg/L	50.0		71.6	40-140				
Aniline	30.0	5.0	µg/L	50.0		60.1	40-140				†
Anthracene	38.4	5.0	µg/L	50.0		76.9	40-140				
Benzo(a)anthracene	38.0	5.0	µg/L	50.0		76.1	40-140				
Benzo(a)pyrene	39.2	5.0	µg/L	50.0		78.3	40-140				
Benzo(b)fluoranthene	37.7	5.0	µg/L	50.0		75.3	40-140				
Benzo(g,h,i)perylene	41.2	5.0	µg/L	50.0		82.4	40-140				
Benzo(k)fluoranthene	39.4	5.0	µg/L	50.0		78.8	40-140				
Bis(2-chloroethoxy)methane	38.6	10	µg/L	50.0		77.2	40-140				
Bis(2-chloroethyl)ether	33.8	10	µg/L	50.0		67.5	40-140				
Bis(2-chloroisopropyl)ether	33.7	10	µg/L	50.0		67.4	40-140				
Bis(2-Ethylhexyl)phthalate	38.2	10	µg/L	50.0		76.4	40-140				
4-Bromophenylphenylether	38.1	10	µg/L	50.0		76.2	40-140				
Butylbenzylphthalate	36.5	10	µg/L	50.0		72.9	40-140				
Carbazole	39.0	10	µg/L	50.0		78.0	40-140				
4-Chloroaniline	30.0	10	µg/L	50.0		60.0	40-140			V-34	†
4-Chloro-3-methylphenol	36.1	10	µg/L	50.0		72.1	30-130				
2-Chloronaphthalene	32.6	10	µg/L	50.0		65.3	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 B195171 - SW-846 3510C											
LCS (B195171-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18							
2-Chlorophenol	31.7	10	µg/L	50.0		63.4	30-130				
4-Chlorophenylphenylether	37.9	10	µg/L	50.0		75.8	40-140				
Chrysene	38.4	5.0	µg/L	50.0		76.8	40-140				
Dibenz(a,h)anthracene	40.3	5.0	µg/L	50.0		80.5	40-140				
Dibenzofuran	37.8	5.0	µg/L	50.0		75.6	40-140				
Di-n-butylphthalate	37.2	10	µg/L	50.0		74.4	40-140				
3,3-Dichlorobenzidine	36.7	10	µg/L	50.0		73.4	40-140			V-34	†
2,4-Dichlorophenol	37.7	10	µg/L	50.0		75.5	30-130				
Diethylphthalate	36.1	10	µg/L	50.0		72.2	40-140				
2,4-Dimethylphenol	31.4	10	µg/L	50.0		62.8	30-130				
Dimethylphthalate	37.8	10	µg/L	50.0		75.5	40-140				
4,6-Dinitro-2-methylphenol	37.5	10	µg/L	50.0		75.0	30-130				
2,4-Dinitrophenol	45.7	10	µg/L	50.0		91.4	30-130				
2,4-Dinitrotoluene	41.9	10	µg/L	50.0		83.8	40-140				
2,6-Dinitrotoluene	41.8	10	µg/L	50.0		83.6	40-140				
Di-n-octylphthalate	36.6	10	µg/L	50.0		73.2	40-140				
Fluoranthene	40.7	5.0	µg/L	50.0		81.5	40-140				
Fluorene	37.4	5.0	µg/L	50.0		74.8	40-140				
Hexachlorobenzene	37.6	10	µg/L	50.0		75.2	40-140				
Hexachlorobutadiene	36.3	10	µg/L	50.0		72.6	40-140				
Hexachlorocyclopentadiene	35.0	10	µg/L	50.0		69.9	30-140				
Hexachloroethane	30.9	10	µg/L	50.0		61.9	40-140				
Indeno(1,2,3-cd)pyrene	41.0	5.0	µg/L	50.0		81.9	40-140				
Isophorone	36.3	10	µg/L	50.0		72.7	40-140				
2-Methylnaphthalene	38.8	5.0	µg/L	50.0		77.6	40-140				
2-Methylphenol	28.5	10	µg/L	50.0		57.0	30-130				
3/4-Methylphenol	28.3	10	µg/L	50.0		56.5	30-130				
Naphthalene	35.1	5.0	µg/L	50.0		70.1	40-140				
2-Nitroaniline	44.4	10	µg/L	50.0		88.7	40-140				
3-Nitroaniline	37.8	10	µg/L	50.0		75.7	40-140				†
4-Nitroaniline	40.8	10	µg/L	50.0		81.5	40-140				
Nitrobenzene	33.2	10	µg/L	50.0		66.5	40-140				
2-Nitrophenol	37.4	10	µg/L	50.0		74.8	30-130				
4-Nitrophenol	21.1	10	µg/L	50.0		42.2	10-130				
N-Nitrosodiphenylamine	43.1	10	µg/L	50.0		86.3	40-140				
N-Nitrosodi-n-propylamine	33.0	10	µg/L	50.0		66.1	40-140				
Pentachloronitrobenzene	39.0	10	µg/L	50.0		78.1	40-140			V-16	
Pentachlorophenol	35.8	10	µg/L	50.0		71.6	30-130				
Phenanthrene	38.1	5.0	µg/L	50.0		76.1	40-140				
Phenol	15.1	10	µg/L	50.0		30.2	20-130				
Pyrene	38.7	5.0	µg/L	50.0		77.3	40-140				
Pyridine	19.2	5.0	µg/L	50.0		38.3	10-140				†
1,2,4,5-Tetrachlorobenzene	35.8	10	µg/L	50.0		71.7	40-140				
1,2,4-Trichlorobenzene	35.2	5.0	µg/L	50.0		70.5	40-140				
2,4,5-Trichlorophenol	36.4	10	µg/L	50.0		72.9	30-130				
2,4,6-Trichlorophenol	38.7	10	µg/L	50.0		77.5	30-130				
Surrogate: 2-Fluorophenol	*90.4*		µg/L	200		45.2	15-110				
Surrogate: Phenol-d6	*64.3*		µg/L	200		32.1	15-110				
Surrogate: Nitrobenzene-d5	*71.7*		µg/L	100		71.7	30-130				
Surrogate: 2-Fluorobiphenyl	*79.0*		µg/L	100		79.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*174*		µg/L	200		87.0	15-110				
Surrogate: p-Terphenyl-d14	*81.6*		µg/L	100		81.6	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 B195171 - SW-846 3510C											
LCS Dup (B195171-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Acenaphthene	38.9	5.0	µg/L	50.0		77.8	40-140	1.92	20		
Acenaphthylene	36.6	5.0	µg/L	50.0		73.1	40-140	2.13	20		
Aniline	35.6	5.0	µg/L	50.0		71.2	40-140	16.9	50		† ‡
Anthracene	39.4	5.0	µg/L	50.0		78.8	40-140	2.47	20		
Benzo(a)anthracene	38.4	5.0	µg/L	50.0		76.8	40-140	0.942	20		
Benzo(a)pyrene	39.7	5.0	µg/L	50.0		79.5	40-140	1.50	20		
Benzo(b)fluoranthene	37.6	5.0	µg/L	50.0		75.2	40-140	0.159	20		
Benzo(g,h,i)perylene	40.8	5.0	µg/L	50.0		81.5	40-140	1.12	20		
Benzo(k)fluoranthene	38.4	5.0	µg/L	50.0		76.8	40-140	2.55	20		
Bis(2-chloroethoxy)methane	40.1	10	µg/L	50.0		80.2	40-140	3.86	20		
Bis(2-chloroethyl)ether	35.1	10	µg/L	50.0		70.2	40-140	3.83	20		
Bis(2-chloroisopropyl)ether	35.1	10	µg/L	50.0		70.2	40-140	4.04	20		
Bis(2-Ethylhexyl)phthalate	38.9	10	µg/L	50.0		77.9	40-140	1.92	20		
4-Bromophenylphenylether	40.4	10	µg/L	50.0		80.8	40-140	5.91	20		
Butylbenzylphthalate	40.3	10	µg/L	50.0		80.5	40-140	9.88	20		
Carbazole	38.5	10	µg/L	50.0		77.0	40-140	1.26	20		
4-Chloroaniline	34.8	10	µg/L	50.0		69.5	40-140	14.6	20	V-34	†
4-Chloro-3-methylphenol	36.8	10	µg/L	50.0		73.7	30-130	2.11	20		
2-Chloronaphthalene	33.8	10	µg/L	50.0		67.6	40-140	3.55	20		
2-Chlorophenol	33.0	10	µg/L	50.0		65.9	30-130	3.93	20		
4-Chlorophenylphenylether	39.2	10	µg/L	50.0		78.5	40-140	3.42	20		
Chrysene	39.0	5.0	µg/L	50.0		78.0	40-140	1.50	20		
Dibenz(a,h)anthracene	40.3	5.0	µg/L	50.0		80.7	40-140	0.149	20		
Dibenzofuran	38.3	5.0	µg/L	50.0		76.5	40-140	1.18	20		
Di-n-butylphthalate	37.9	10	µg/L	50.0		75.8	40-140	1.89	20		
3,3-Dichlorobenzidine	41.6	10	µg/L	50.0		83.3	40-140	12.6	20	V-34	† ‡
2,4-Dichlorophenol	39.7	10	µg/L	50.0		79.3	30-130	4.96	20		
Diethylphthalate	36.9	10	µg/L	50.0		73.9	40-140	2.33	20		
2,4-Dimethylphenol	35.5	10	µg/L	50.0		70.9	30-130	12.1	20		
Dimethylphthalate	38.7	10	µg/L	50.0		77.3	40-140	2.36	50		
4,6-Dinitro-2-methylphenol	38.2	10	µg/L	50.0		76.3	30-130	1.72	50		
2,4-Dinitrophenol	45.2	10	µg/L	50.0		90.4	30-130	1.10	50		
2,4-Dinitrotoluene	40.9	10	µg/L	50.0		81.8	40-140	2.42	20		
2,6-Dinitrotoluene	41.8	10	µg/L	50.0		83.5	40-140	0.0957	20		
Di-n-octylphthalate	35.8	10	µg/L	50.0		71.7	40-140	2.10	20		
Fluoranthene	38.1	5.0	µg/L	50.0		76.2	40-140	6.62	20		
Fluorene	37.5	5.0	µg/L	50.0		75.0	40-140	0.347	20		
Hexachlorobenzene	39.8	10	µg/L	50.0		79.7	40-140	5.76	20		
Hexachlorobutadiene	38.6	10	µg/L	50.0		77.3	40-140	6.27	20		
Hexachlorocyclopentadiene	37.3	10	µg/L	50.0		74.6	30-140	6.53	50		
Hexachloroethane	32.5	10	µg/L	50.0		65.0	40-140	4.89	50		
Indeno(1,2,3-cd)pyrene	40.2	5.0	µg/L	50.0		80.3	40-140	2.02	50		
Isophorone	37.7	10	µg/L	50.0		75.4	40-140	3.75	20		
2-Methylnaphthalene	40.8	5.0	µg/L	50.0		81.7	40-140	5.12	20		
2-Methylphenol	30.3	10	µg/L	50.0		60.5	30-130	6.06	20		
3/4-Methylphenol	28.7	10	µg/L	50.0		57.4	30-130	1.51	20		
Naphthalene	36.4	5.0	µg/L	50.0		72.7	40-140	3.61	20		
2-Nitroaniline	43.8	10	µg/L	50.0		87.7	40-140	1.18	20		
3-Nitroaniline	39.3	10	µg/L	50.0		78.6	40-140	3.71	20		†
4-Nitroaniline	39.4	10	µg/L	50.0		78.8	40-140	3.37	20		
Nitrobenzene	34.2	10	µg/L	50.0		68.4	40-140	2.88	20		
2-Nitrophenol	39.3	10	µg/L	50.0		78.6	30-130	5.03	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 B195171 - SW-846 3510C											
LCS Dup (B195171-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18							
4-Nitrophenol	19.0	10	µg/L	50.0		38.1	10-130	10.3	50		‡
N-Nitrosodiphenylamine	45.6	10	µg/L	50.0		91.2	40-140	5.57	20		
N-Nitrosodi-n-propylamine	33.2	10	µg/L	50.0		66.4	40-140	0.513	20		
Pentachloronitrobenzene	40.3	10	µg/L	50.0		80.6	40-140	3.20	20	V-16	
Pentachlorophenol	40.6	10	µg/L	50.0		81.3	30-130	12.6	50		
Phenanthrene	39.2	5.0	µg/L	50.0		78.4	40-140	2.98	20		
Phenol	15.0	10	µg/L	50.0		30.1	20-130	0.332	20		
Pyrene	41.3	5.0	µg/L	50.0		82.5	40-140	6.51	20		
Pyridine	19.9	5.0	µg/L	50.0		39.8	10-140	3.84	50		†
1,2,4,5-Tetrachlorobenzene	37.9	10	µg/L	50.0		75.8	40-140	5.53	20		
1,2,4-Trichlorobenzene	36.9	5.0	µg/L	50.0		73.8	40-140	4.58	20		
2,4,5-Trichlorophenol	38.9	10	µg/L	50.0		77.9	30-130	6.58	20		
2,4,6-Trichlorophenol	40.5	10	µg/L	50.0		81.1	30-130	4.54	50		
Surrogate: 2-Fluorophenol	*90.0*		µg/L	200		45.0	15-110				
Surrogate: Phenol-d6	*62.3*		µg/L	200		31.2	15-110				
Surrogate: Nitrobenzene-d5	*72.1*		µg/L	100		72.1	30-130				
Surrogate: 2-Fluorobiphenyl	*80.9*		µg/L	100		80.9	30-130				
Surrogate: 2,4,6-Tribromophenol	*173*		µg/L	200		86.5	15-110				
Surrogate: p-Terphenyl-d14	*87.7*		µg/L	100		87.7	30-130				
Batch B195396 - SW-846 3546											
Blank (B195396-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18							
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, V-34	
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							V-34	
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								

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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 B195396 - SW-846 3546										
Blank (B195396-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
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							
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	*4.70*		mg/Kg wet	6.67		70.4	30-130			
Surrogate: Phenol-d6	*4.47*		mg/Kg wet	6.67		67.0	30-130			
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.49*		mg/Kg wet	3.33		74.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.19*		mg/Kg wet	6.67		77.8	30-130			
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.4	30-130			
LCS (B195396-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140			
Aniline	0.745	0.34	mg/Kg wet	1.67		44.7	40-140			†
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Benzo(a)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	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 B195396 - SW-846 3546												
LCS (B195396-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18								
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.3		40-140				
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.67		62.2		40-140				
Bis(2-chloroisopropyl)ether	1.07	0.34	mg/Kg wet	1.67		64.3		40-140				
Bis(2-Ethylhexyl)phthalate	1.27	0.34	mg/Kg wet	1.67		76.1		40-140				
4-Bromophenylphenylether	1.23	0.34	mg/Kg wet	1.67		73.6		40-140				
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.0		40-140				
Carbazole	1.12	0.17	mg/Kg wet	1.67		67.4		40-140				
4-Chloroaniline	0.596	0.66	mg/Kg wet	1.67		**35.7**	*	40-140			L-04, V-34	†
4-Chloro-3-methylphenol	1.09	0.66	mg/Kg wet	1.67		65.3		30-130				
2-Chloronaphthalene	0.986	0.34	mg/Kg wet	1.67		59.2		40-140				
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130				
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.0		40-140				
Chrysene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140				
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3		40-140				
Dibenzofuran	1.13	0.34	mg/Kg wet	1.67		67.6		40-140				
Di-n-butylphthalate	1.10	0.34	mg/Kg wet	1.67		65.8		40-140				
3,3-Dichlorobenzidine	0.809	0.17	mg/Kg wet	1.67		48.5		40-140			V-34	†
2,4-Dichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5		30-130				
Diethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.7		40-140				
2,4-Dimethylphenol	1.03	0.34	mg/Kg wet	1.67		61.7		30-130				
Dimethylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2		40-140				
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.8		30-130				
2,4-Dinitrophenol	1.06	0.66	mg/Kg wet	1.67		63.6		30-130				
2,4-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.3		40-140				
2,6-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		71.8		40-140				
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		72.2		40-140				
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8		40-140				
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.7		40-140				
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.4		40-140				
Hexachlorobutadiene	1.14	0.34	mg/Kg wet	1.67		68.3		40-140				
Hexachlorocyclopentadiene	1.12	0.34	mg/Kg wet	1.67		67.1		30-140				
Hexachloroethane	0.954	0.34	mg/Kg wet	1.67		57.2		40-140				
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		73.7		40-140				
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.6		40-140				
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.3		40-140				
2-Methylphenol	0.999	0.34	mg/Kg wet	1.67		59.9		30-130				
3/4-Methylphenol	0.970	0.34	mg/Kg wet	1.67		58.2		30-130				
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3		40-140				
2-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2		40-140				
3-Nitroaniline	0.993	0.34	mg/Kg wet	1.67		59.6		40-140				†
4-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.8		40-140				
Nitrobenzene	1.02	0.34	mg/Kg wet	1.67		61.1		40-140				
2-Nitrophenol	1.16	0.34	mg/Kg wet	1.67		69.8		30-130				
4-Nitrophenol	1.09	0.66	mg/Kg wet	1.67		65.2		10-130				
N-Nitrosodiphenylamine	1.38	0.34	mg/Kg wet	1.67		82.7		40-140				
N-Nitrosodi-n-propylamine	0.938	0.34	mg/Kg wet	1.67		56.3		40-140				
Pentachloronitrobenzene	1.19	0.34	mg/Kg wet	1.67		71.4		40-140			V-16	
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1		30-130				
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.5		40-140				
Phenol	0.981	0.34	mg/Kg wet	1.67		58.8		20-130				
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140				
Pyridine	0.705	0.34	mg/Kg wet	1.67		42.3		10-140				†

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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 B195396 - SW-846 3546												
LCS (B195396-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18								
1,2,4,5-Tetrachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.6		40-140				
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.4		40-140				
2,4,5-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1		30-130				
2,4,6-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.2		30-130				
Surrogate: 2-Fluorophenol	*4.24*		mg/Kg wet	6.67		63.6		30-130				
Surrogate: Phenol-d6	*4.15*		mg/Kg wet	6.67		62.3		30-130				
Surrogate: Nitrobenzene-d5	*2.18*		mg/Kg wet	3.33		65.5		30-130				
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.91*		mg/Kg wet	6.67		73.7		30-130				
Surrogate: p-Terphenyl-d14	*2.53*		mg/Kg wet	3.33		76.0		30-130				
LCS Dup (B195396-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18								
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.3		40-140	2.00	30		
Acenaphthylene	1.07	0.17	mg/Kg wet	1.67		64.2		40-140	0.652	30		
Aniline	0.832	0.34	mg/Kg wet	1.67		49.9		40-140	11.1	50		† ‡
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.2		40-140	0.960	30		
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		69.9		40-140	1.21	30		
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0		40-140	1.43	30		
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	2.03	30		
Benzo(g,h,i)perylene	1.25	0.17	mg/Kg wet	1.67		74.8		40-140	2.54	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9		40-140	2.46	30		
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	4.57	30		
Bis(2-chloroethyl)ether	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	1.28	30		
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7		40-140	9.39	30		
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.2		40-140	1.27	30		
4-Bromophenylphenylether	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.68	30		
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		73.9		40-140	1.31	30		
Carbazole	1.15	0.17	mg/Kg wet	1.67		68.9		40-140	2.20	30		
4-Chloroaniline	0.664	0.66	mg/Kg wet	1.67		**39.9**	*	40-140	10.9	30	L-04, V-34	†
4-Chloro-3-methylphenol	1.17	0.66	mg/Kg wet	1.67		70.0		30-130	6.95	30		
2-Chloronaphthalene	0.971	0.34	mg/Kg wet	1.67		58.3		40-140	1.53	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.0		30-130	0.686	30		
4-Chlorophenylphenylether	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	2.26	30		
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.4		40-140	1.08	30		
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5		40-140	3.01	30		
Dibenzofuran	1.11	0.34	mg/Kg wet	1.67		66.5		40-140	1.58	30		
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.6		40-140	5.67	30		
3,3-Dichlorobenzidine	0.853	0.17	mg/Kg wet	1.67		51.2		40-140	5.34	30	V-34	† ‡
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		71.9		30-130	4.87	30		
Diethylphthalate	1.10	0.34	mg/Kg wet	1.67		66.2		40-140	2.32	30		
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.0		30-130	5.30	30		
Dimethylphthalate	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	2.36	50		
4,6-Dinitro-2-methylphenol	1.12	0.34	mg/Kg wet	1.67		67.0		30-130	0.269	50		
2,4-Dinitrophenol	0.994	0.66	mg/Kg wet	1.67		59.6		30-130	6.46	50		
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.2		40-140	1.23	30		
2,6-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		74.0		40-140	3.02	30		
Di-n-octylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.580	30		
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9		40-140	3.12	30		
Fluorene	1.05	0.17	mg/Kg wet	1.67		63.3		40-140	3.72	30		
Hexachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.5		40-140	2.72	30		
Hexachlorobutadiene	1.11	0.34	mg/Kg wet	1.67		66.7		40-140	2.40	30		
Hexachlorocyclopentadiene	1.06	0.34	mg/Kg wet	1.67		63.5		30-140	5.61	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 B195396 - SW-846 3546											
LCS Dup (B195396-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18							
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.5	40-140	7.24	50		
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	1.72	50		
Isophorone	1.15	0.34	mg/Kg wet	1.67		69.1	40-140	6.79	30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	0.454	30		
2-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.7	30-130	4.56	30		
3/4-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.8	30-130	7.64	30		
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	1.50	30		
2-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	0.687	30		
3-Nitroaniline	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	4.56	30		†
4-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	2.09	30		
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	6.07	30		
2-Nitrophenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	1.76	30		
4-Nitrophenol	1.10	0.66	mg/Kg wet	1.67		66.2	10-130	1.55	50		‡
N-Nitrosodiphenylamine	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	0.314	30		
N-Nitrosodi-n-propylamine	1.02	0.34	mg/Kg wet	1.67		61.1	40-140	8.11	30		
Pentachloronitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.2	40-140	1.67	30	V-16	
Pentachlorophenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130	1.52	50		
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.369	30		
Phenol	0.990	0.34	mg/Kg wet	1.67		59.4	20-130	0.947	30		
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140	1.06	30		
Pyridine	0.692	0.34	mg/Kg wet	1.67		41.5	10-140	1.81	50		†
1,2,4,5-Tetrachlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.9	40-140	7.34	30		
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	1.38	30		
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130	1.71	30		
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.6	30-130	2.33	50		
Surrogate: 2-Fluorophenol	*4.03*		mg/Kg wet	6.67		60.5	30-130				
Surrogate: Phenol-d6	*4.19*		mg/Kg wet	6.67		62.8	30-130				
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg wet	3.33		67.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.24*		mg/Kg wet	3.33		67.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.68*		mg/Kg wet	6.67		70.3	30-130				
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.33		75.2	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 B195278 - SW-846 3510C										
Blank (B195278-BLK1)				Prepared: 01/22/18 Analyzed: 01/24/18						
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	*2.08*		µg/L	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.78*		µg/L	2.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.90*		µg/L	2.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.08*		µg/L	2.00		104	30-150			
LCS (B195278-BS1)				Prepared: 01/22/18 Analyzed: 01/24/18						
Aroclor-1016	0.57	0.20	µg/L	0.500		114	40-140			
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		107	40-140			
Aroclor-1260	0.48	0.20	µg/L	0.500		97.0	40-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.2	40-140			
Surrogate: Decachlorobiphenyl	*2.01*		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	2.00		87.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.01*		µg/L	2.00		100	30-150			
LCS Dup (B195278-BSD1)				Prepared: 01/22/18 Analyzed: 01/24/18						
Aroclor-1016	0.60	0.20	µg/L	0.500		120	40-140	4.83	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		112	40-140	4.43	20	
Aroclor-1260	0.52	0.20	µg/L	0.500		103	40-140	6.42	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.5	40-140	5.95	20	
Surrogate: Decachlorobiphenyl	*2.08*		µg/L	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.89*		µg/L	2.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.93*		µg/L	2.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.06*		µg/L	2.00		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 B195176 - SW-846 3540C										
Blank (B195176-BLK1)				Prepared: 01/19/18 Analyzed: 01/24/18						
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	*0.186*		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.211*		mg/Kg wet	0.200		106	30-150			
LCS (B195176-BS1)				Prepared: 01/19/18 Analyzed: 01/24/18						
Aroclor-1016	0.22	0.020	mg/Kg wet	0.200		109	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.9	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
LCS Dup (B195176-BSD1)				Prepared: 01/19/18 Analyzed: 01/24/18						
Aroclor-1016	0.21	0.020	mg/Kg wet	0.200		107	40-140	1.48	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		106	40-140	1.05	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	1.25	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	2.73	30	
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195178 - SW-846 3540C										
Blank (B195178-BLK1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg wet	0.200		99.8	30-150			
LCS (B195178-BS1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.3	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		105	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140			
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.223*		mg/Kg wet	0.200		111	30-150			
LCS Dup (B195178-BSD1)				Prepared: 01/19/18 Analyzed: 01/23/18						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.4	40-140	3.42	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	16.7	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	3.84	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	3.39	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg wet	0.200		96.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195178 - SW-846 3540C										
Matrix Spike (B195178-MS1)	**Source: 18A0554-10**			Prepared: 01/19/18 Analyzed: 01/24/18						
Aroclor-1016	0.23	0.11	mg/Kg dry	0.267	ND	85.2	40-140			
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.267	ND	94.3	40-140			
Aroclor-1260	0.22	0.11	mg/Kg dry	0.267	ND	80.9	40-140			
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.267	ND	81.2	40-140			
Surrogate: Decachlorobiphenyl	*0.145*		mg/Kg dry	0.267		54.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg dry	0.267		67.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg dry	0.267		67.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.267		76.3	30-150			
Matrix Spike Dup (B195178-MSD1)	**Source: 18A0554-10**			Prepared: 01/19/18 Analyzed: 01/24/18						
Aroclor-1016	0.27	0.11	mg/Kg dry	0.267	ND	99.9	40-140	15.9	50	
Aroclor-1016 [2C]	0.26	0.11	mg/Kg dry	0.267	ND	96.9	40-140	2.65	50	
Aroclor-1260	0.24	0.11	mg/Kg dry	0.267	ND	91.5	40-140	12.3	50	
Aroclor-1260 [2C]	0.25	0.11	mg/Kg dry	0.267	ND	94.6	40-140	15.3	50	
Surrogate: Decachlorobiphenyl	*0.154*		mg/Kg dry	0.267		57.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg dry	0.267		75.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.212*		mg/Kg dry	0.267		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.235*		mg/Kg dry	0.267		88.1	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 B195260 - SW-846 3546										
Blank (B195260-BLK1)				Prepared: 01/22/18 Analyzed: 01/23/18						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.03*		mg/Kg wet	3.33		90.8	50-150			
LCS (B195260-BS1)				Prepared: 01/22/18 Analyzed: 01/23/18						
CT ETPH	28.0	10	mg/Kg wet	33.3		84.1	60-120			
Surrogate: o-Terphenyl	*3.05*		mg/Kg wet	3.33		91.6	50-150			
LCS Dup (B195260-BSD1)				Prepared: 01/22/18 Analyzed: 01/23/18						
CT ETPH	29.6	10	mg/Kg wet	33.3		88.9	60-120	5.53	30	
Surrogate: o-Terphenyl	*3.21*		mg/Kg wet	3.33		96.3	50-150			
Matrix Spike (B195260-MS1)	**Source: 18A0554-21**			Prepared: 01/22/18 Analyzed: 01/23/18						
CT ETPH	31.7	12	mg/Kg dry	38.3	7.73	62.5	50-150			
Surrogate: o-Terphenyl	*3.54*		mg/Kg dry	3.83		92.2	50-150			
Matrix Spike Dup (B195260-MSD1)	**Source: 18A0554-21**			Prepared: 01/22/18 Analyzed: 01/23/18						
CT ETPH	32.7	12	mg/Kg dry	38.6	7.73	64.7	50-150	3.18	30	
Surrogate: o-Terphenyl	*3.67*		mg/Kg dry	3.86		95.0	50-150			
Batch B195343 - SW-846 3510C										
Blank (B195343-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0935*		mg/L	0.100		93.5	50-150			
LCS (B195343-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18						
CT ETPH	0.840	0.075	mg/L	1.00		84.0	60-120			
Surrogate: o-Terphenyl	*0.0949*		mg/L	0.100		94.9	50-150			
LCS Dup (B195343-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18						
CT ETPH	0.860	0.075	mg/L	1.00		86.0	60-120	2.44	30	
Surrogate: o-Terphenyl	*0.0950*		mg/L	0.100		95.0	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 B195182 - SW-846 3050B											
Blank (B195182-BLK1)				Prepared: 01/19/18 Analyzed: 01/23/18							
Antimony	ND	1.7	mg/Kg wet								
Arsenic	ND	1.7	mg/Kg wet								
Barium	ND	1.7	mg/Kg wet								
Beryllium	ND	0.17	mg/Kg wet								
Cadmium	ND	0.17	mg/Kg wet								
Chromium	ND	0.33	mg/Kg wet								
Copper	ND	0.33	mg/Kg wet								
Lead	ND	0.50	mg/Kg wet								M-10
Nickel	ND	0.33	mg/Kg wet								
Selenium	ND	3.3	mg/Kg wet								
Silver	ND	0.33	mg/Kg wet								
Thallium	ND	1.7	mg/Kg wet								
Vanadium	ND	0.67	mg/Kg wet								
Zinc	ND	0.67	mg/Kg wet								
LCS (B195182-BS1)				Prepared: 01/19/18 Analyzed: 01/23/18							
Antimony	54.8	4.8	mg/Kg wet	65.1		84.2		3.8-212			
Arsenic	141	4.8	mg/Kg wet	147		96.1		83-117			
Barium	322	4.8	mg/Kg wet	314		102		82.2-117.8			
Beryllium	57.5	0.48	mg/Kg wet	53.4		108		82.8-117.2			
Cadmium	192	0.48	mg/Kg wet	193		99.3		82.4-117.6			
Chromium	84.3	0.96	mg/Kg wet	82.6		102		81.8-118.2			
Copper	192	0.96	mg/Kg wet	171		112		83.6-116.4			
Lead	88.9	1.4	mg/Kg wet	92.3		96.4		82.8-117			M-10
Nickel	133	0.96	mg/Kg wet	137		97.3		82.5-118.2			
Selenium	176	9.6	mg/Kg wet	187		94.2		79.1-121.4			
Silver	43.0	0.96	mg/Kg wet	40.7		106		79.6-120.4			
Thallium	151	4.8	mg/Kg wet	153		98.9		81-119			
Vanadium	87.2	1.9	mg/Kg wet	86.6		101		77.6-122.4			
Zinc	177	1.9	mg/Kg wet	189		93.6		79.9-120.1			
LCS Dup (B195182-BSD1)				Prepared: 01/19/18 Analyzed: 01/23/18							
Antimony	59.1	4.7	mg/Kg wet	65.1		90.8		3.8-212	7.47	30	
Arsenic	151	4.7	mg/Kg wet	147		103		83-117	6.87	30	
Barium	338	4.7	mg/Kg wet	314		108		82.2-117.8	4.85	30	
Beryllium	61.6	0.47	mg/Kg wet	53.4		115		82.8-117.2	6.79	30	
Cadmium	203	0.47	mg/Kg wet	193		105		82.4-117.6	5.55	30	
Chromium	90.1	0.94	mg/Kg wet	82.6		109		81.8-118.2	6.59	30	
Copper	205	0.94	mg/Kg wet	171		**120**	*	83.6-116.4	6.51	30	L-07
Lead	96.2	1.4	mg/Kg wet	92.3		104		82.8-117	7.84	30	M-10
Nickel	141	0.94	mg/Kg wet	137		103		82.5-118.2	5.79	30	
Selenium	187	9.4	mg/Kg wet	187		100		79.1-121.4	6.26	30	
Silver	45.9	0.94	mg/Kg wet	40.7		113		79.6-120.4	6.52	30	
Thallium	159	4.7	mg/Kg wet	153		104		81-119	4.88	30	
Vanadium	93.8	1.9	mg/Kg wet	86.6		108		77.6-122.4	7.25	30	
Zinc	188	1.9	mg/Kg wet	189		99.6		79.9-120.1	6.21	30	

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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 B195182 - SW-846 3050B											
MRL Check (B195182-MRL1)				Prepared: 01/19/18 Analyzed: 01/23/18							
Lead	0.650	0.50	mg/Kg wet	0.501		**130**	*	80-120			M-10
Batch B195183 - SW-846 7471											
Blank (B195183-BLK1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Mercury	ND	0.025	mg/Kg wet								
LCS (B195183-BS1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Mercury	10.7	2.0	mg/Kg wet	9.36		114		73.7-126.3			
LCS Dup (B195183-BSD1)				Prepared: 01/19/18 Analyzed: 01/22/18							
Mercury	10.4	2.0	mg/Kg wet	9.36		111		73.7-126.3	3.03	30	
Batch B195267 - SW-846 3005A											
Blank (B195267-BLK1)				Prepared: 01/22/18 Analyzed: 01/25/18							
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								
Thallium	ND	1.0	µg/L								
Vanadium	ND	25	µg/L								
Zinc	ND	50	µg/L								
LCS (B195267-BS1)				Prepared: 01/22/18 Analyzed: 01/25/18							
Antimony	481	10	µg/L	500		96.2		80-120			
Arsenic	481	4.0	µg/L	500		96.2		80-120			
Barium	553	100	µg/L	500		111		80-120			
Beryllium	570	4.0	µg/L	500		114		80-120			
Cadmium	543	5.0	µg/L	500		109		80-120			
Chromium	544	10	µg/L	500		109		80-120			
Copper	1050	50	µg/L	1000		105		80-120			
Lead	551	10	µg/L	500		110		80-120			
Nickel	530	50	µg/L	500		106		80-120			
Selenium	498	50	µg/L	500		99.7		80-120			
Thallium	543	2.0	µg/L	500		109		80-120			
Vanadium	541	50	µg/L	500		108		80-120			
Zinc	1060	100	µg/L	1000		106		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 B195267 - SW-846 3005A										
LCS Dup (B195267-BSD1)				Prepared: 01/22/18 Analyzed: 01/25/18						
Antimony	488	10	µg/L	500		97.6	80-120	1.49	20	
Arsenic	487	4.0	µg/L	500		97.4	80-120	1.22	20	
Barium	561	100	µg/L	500		112	80-120	1.48	20	
Beryllium	570	4.0	µg/L	500		114	80-120	0.0243	20	
Cadmium	547	5.0	µg/L	500		109	80-120	0.715	20	
Chromium	556	10	µg/L	500		111	80-120	2.21	20	
Copper	1060	50	µg/L	1000		106	80-120	1.13	20	
Lead	564	10	µg/L	500		113	80-120	2.26	20	
Nickel	535	50	µg/L	500		107	80-120	0.970	20	
Selenium	516	50	µg/L	500		103	80-120	3.49	20	
Thallium	555	2.0	µg/L	500		111	80-120	2.06	20	
Vanadium	553	50	µg/L	500		111	80-120	2.22	20	
Zinc	1080	100	µg/L	1000		108	80-120	1.77	20	
Batch B195292 - SW-846 7470A Prep										
Blank (B195292-BLK1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	ND	0.00010	mg/L							
LCS (B195292-BS1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	0.00181	0.00010	mg/L	0.00200		90.7	80-120			
LCS Dup (B195292-BSD1)				Prepared: 01/23/18 Analyzed: 01/24/18						
Mercury	0.00191	0.00010	mg/L	0.00200		95.7	80-120	5.40	20	
Batch B195568 - SW-846 3005A										
Blank (B195568-BLK1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Silver	ND	2.5	µg/L							
LCS (B195568-BS1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Silver	416	5.0	µg/L	500		83.2	80-120			
LCS Dup (B195568-BSD1)				Prepared: 01/25/18 Analyzed: 01/26/18						
Silver	417	5.0	µg/L	500		83.3	80-120	0.188	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 B195159 - % Solids										
Duplicate (B195159-DUP4)	**Source: 18A0554-01**			Prepared: 01/19/18 Analyzed: 01/22/18						
% Solids	71.9		% Wt		76.5			6.22	20	
Duplicate (B195159-DUP5)	**Source: 18A0554-10**			Prepared: 01/19/18 Analyzed: 01/22/18						
% Solids	81.4		% Wt		73.5			10.1	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-211A (0-0.5)

Lab Sample ID: 18A0554-01 Date(s) Analyzed: 01/23/2018 01/23/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.87	
	2	0.000	-0.030	0.030	0.94	7.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-211B (3-4)

Lab Sample ID: 18A0554-02 Date(s) Analyzed: 01/23/2018 01/23/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.098	11.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-212A (0-0.5)

Lab Sample ID: 18A0554-04 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.37	5.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-212B (3-4)

Lab Sample ID: 18A0554-05 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.32	3.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-213A (0-0.5)

Lab Sample ID: 18A0554-09 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.21	4.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-214A (0-0.5)

Lab Sample ID: 18A0554-12 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.81	
	2	0.000	-0.030	0.030	0.86	6.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-215A (0-0.5)

Lab Sample ID: 18A0554-15 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-215B (3-4)

Lab Sample ID: 18A0554-16 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.21	4.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-216A (0-0.1)

Lab Sample ID: 18A0554-18 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.29	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-216B (3-4)

Lab Sample ID: 18A0554-19 Date(s) Analyzed: 01/24/2018 01/24/2018

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	0.24	
	2	0.000	-0.030	0.030	0.24	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

DUP-1

Lab Sample ID: 18A0554-23 Date(s) Analyzed: 01/24/2018 01/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.26	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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
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.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low 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.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
M-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 biased on the high side.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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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

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	
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	09/30/2019
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	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
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

Table of Contents

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD 1DA0554

Page 3 of 5

Company Name:	Weston & Sampson
Address:	273 Dividend Road, Rocky Hill, CT
Phone:	1-800-SAMPSON
Project Name:	Berlin Sixth Road
Project Location:	107 Sheldon Street Berlin CT
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Gabriella Pagliuca & Chris Bernhardt

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Std 5-day

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

Data Delivery
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Other: pagliuca@wsp.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsp.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's	SVOC's	CA ETPH	RSR 15 Metals	VOC's
1	B-211A (0.0-0.5)	1/17/18	1215		X	S	U	X				
2	B-211B (3.0-4.0)		1217					X				
3	B-211C (7.0-8.0)		1219					X				
4	B-212A (0.0-0.5)		1125					X	X	X	X	
5	B-212B (3.0-4.0)		1127					X				
6	B-212C (7.0-8.0)		1129					X				
7	B-212D (10.0-12.0)		1131					X	X	X	X	X
8	B-212E (12.0-13.0)		1133								X	
9	B-213A (0.0-0.5)		1038					X				
10	B-213B (3.0-4.0)	↓	1040		↓	↓	↓	X				

[1] # of Containers	1	1 1 3
[2] Preservation Code	H	H I IOM
[3] Container Code	A	A A V

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been ~~received~~ reviewed.
Please run B-213B for 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

[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 H2O

[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)
DI H2O

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

Relinquished by: (signature)	Date/Time: 1/18/18 1045	
Received by: (signature)	Date/Time: 1/18/18 10:45	
Relinquished by: (signature)	Date/Time: 1/18/18 17:22	
Received by: (signature)	Date/Time: 1-18-18 17:22	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA:
CT: GA PML
RES VEC IC 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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Encore Frozen on 1-19-18 @ 17:22
DI H2O Frozen on 1-19-18 @ 17:22
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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Fax: 413-525-6405
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http://www.contestlabs.com/ 18A05544 Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 4 of 5

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill CT 06067
Phone: 1-800-SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden Street, Berlin CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pajuelo & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: std 5-day

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pmpluscay@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.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	SVOCs	CT EPH	RSR 15 Metals	VOCs	# of Containers
								I		I	I	3	[2] Preservation Code
								A		A	A	V	[3] Container Code
11	B-213C (7.0-8.0)	1/17/18	1042		X	S	U	X					
12	B-214A (0.0-0.5)		1015					X					
13	B-214B (3.0-4.0)		1020					X					
14	B-214C (7.0-8.0)		1022					X					
15	B-215A (0.0-0.5)		0956					X					
16	B-215B (3.0-4.0)		0958					X					
17	B-215C (8.0-9.0)		1000					X					
18	B-216A (0.0-0.5)		0950					X	X	X	X		
19	B-216B (3.0-4.0)		0952					X					
20	B-216C (7.0-8.0)	↓	0954		↓	↓	↓	X					

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
Additional Soil [redacted] has been submitted for possible reactivation to analyze for SPLP after results have been reviewed

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

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) DI H2O

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

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

Relinquished by: (signature)	Date/Time: 1/17/18 10:45	
Received by: (signature)	Date/Time: 1/17/18 10:45	
Relinquished by: (signature)	Date/Time: 1/18/18 17:21	
Received by: (signature) 3.1.14.6.4.5	Date/Time: 1-18-18 17:22	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA:
CT: GA PMC RES DEC IIC 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
www.contestlabs.com
Encore Frozen on 1-19-18 @ 17:22
ID: #26 Frozen on 1-19-18 @ 17:22
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

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD 18A0544

39 Spruce Street
East Longmeadow, MA 01028

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

Page 3 of 5

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill, CT
Phone: 1-800-SAMPSON
Project Name: Berlin Settling Basin
Project Location: 107 Selden Street, Berlin, CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pagliuca & Chris Berthiaume

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Stnd 5 day

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pagliucag@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	SVOCs	CT ETPH	RSR 15 Metals	VOCs									
								1		1	1	3									
								I		I	I	I,on									
								A		A	A	V									
21	B-216D (10.0-12.0)	1/17/13	0956		X	S	U	X	X	X	X	X									
22	B-216E (13.0-14.0)		0953		X	S	U				X										
23	DUP-1		—		X	S	U	X													
24	DUP-2		—		X	S	U	X													
25	EB-011713		1600			O	U	X	X	X	X	X									
26	TB 011713											X									
27	EB-011818		[illegible]			O	U	—	X	X		X									

ANALYSIS REQUESTED

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

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

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

[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:
Additional soil has been submitted for possible reactivation to analyze for SPLP after results have been received.

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: 1/17/13 1045	
Received by: (signature)	Date/Time: 1/18/18 10.4	
Relinquished by: (signature) 1/18/18	Date/Time: 17:21	
Received by: (signature) 3.1/4.6/4.5	Date/Time: 1-18-18 17:22	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT GA PMC
RES DEC I/C 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 www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

En core frozen on 1-18-18 @ 17:22
D frozen on 1-18-18 @ 17:22

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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 and Sampson

Received By: ESD Date: 1-18-18 Time: 17:22

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 #: 577 Actual Temp - 3.1/4.6/4.5

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? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? T On COC? T

Do all samples have the proper pH? T Acid: Base:

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	12	1 Liter Plastic		16 oz Amb.	30
HCL-	8	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	6301
Meoh-	2	250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4	Other Plastic		Other Glass		Encore	2
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:

PH<2
DI water Frozen on 1-18-18 17:22
Encore Frozen on 1-18-18 17:22

D:\HPCHEM\1\DATA\A012318.SEC\A0123085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/23/18
Data File Name	A0123085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	739655	782379	-5
c - 10	1.61	761051	782379	-3
c - 12	2.33	777992	782379	-1
c - 14	2.99	794869	782379	2
c - 16	3.59	812807	782379	4
c - 18	4.19	817666	782379	5
o-Terphenyl	4.48	902766	782379	
c - 20	4.80	822803	782379	5
c - 22	5.30	828174	782379	6
c - 24	5.74	823663	782379	5
c - 26	6.13	818155	782379	5
c - 28	6.49	817239	782379	4
c - 30	6.82	811410	782379	4
c - 32	7.13	752136	782379	-4
c - 34	7.42	697796	782379	-11
c - 36	7.73	660273	782379	-16

* One compound allowed %D </= 50%

Samples
18A0673-17
18A0673-10
18A0673-09@10X
18A0673-07@20X

D:\HPCHEM\1\DATA\A012318.SEC\A0123031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 1/23/18
Data File Name A0123031.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	675001	673254	0
c - 10	1.61	690111	673254	3
c - 12	2.33	695204	673254	3
c - 14	2.99	697455	673254	4
c - 16	3.59	697661	673254	4
c - 18	4.19	691164	673254	3
o-Terphenyl	4.48	764914	673254	
c - 20	4.80	693308	673254	3
c - 22	5.30	695657	673254	3
c - 24	5.74	691837	673254	3
c - 26	6.13	689359	673254	2
c - 28	6.49	690720	673254	3
c - 30	6.82	687988	673254	2
c - 32	7.13	642258	673254	-5
c - 34	7.42	598465	673254	-11
c - 36	7.73	562616	673254	-16

* One compound allowed %D </= 50%

Samples
18A0582-25
18A0582-28
18A0506-10
18A0554-07
18A0554-18

D:\HPCHEM\1\DATA\A012518.SEC\A0125007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/25/18
Data File Name	A0125007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	623035	641159	-3
c - 10	1.61	633149	641159	-1
c - 12	2.33	642092	641159	0
c - 14	3.00	656198	641159	2
c - 16	3.59	668500	641159	4
c - 18	4.19	670603	641159	5
o-Terphenyl	4.48	743692	641159	
c - 20	4.80	680626	641159	6
c - 22	5.31	680329	641159	6
c - 24	5.74	673237	641159	5
c - 26	6.13	670601	641159	5
c - 28	6.49	662841	641159	3
c - 30	6.82	653163	641159	2
c - 32	7.14	607623	641159	-5
c - 34	7.43	559105	641159	-13
c - 36	7.73	536277	641159	-16

* One compound allowed %D </= 50%

Samples
18A0655-34
18A0655-32
18A0655-26
18A0652-01@100X
18A0652-04@250X

D:\HPCHEM\1\DATA\A012518\A0125006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/25/18
Data File Name	A0125006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	486133	503731	-3
c - 10	1.61	496435	503731	-1
c - 12	2.34	505805	503731	0
c - 14	3.01	514766	503731	2
c - 16	3.62	524358	503731	4
c - 18	4.23	525957	503731	4
o-Terphenyl	4.52	575803	503731	
c - 20	4.84	527355	503731	5
c - 22	5.35	528457	503731	5
c - 24	5.79	522300	503731	4
c - 26	6.18	519320	503731	3
c - 28	6.54	519960	503731	3
c - 30	6.88	518260	503731	3
c - 32	7.19	484341	503731	-4
c - 34	7.48	453217	503731	-10
c - 36	7.81	429306	503731	-15

* One compound allowed %D </= 50%

Samples
18A0652-02@250X
18A0655-25@5X

D:\HPCHEM\1\DATA\A012418\A0124018.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124018.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	473716	492520	-4
c - 10	1.61	483594	492520	-2
c - 12	2.34	491609	492520	0
c - 14	3.01	500621	492520	2
c - 16	3.62	510785	492520	4
c - 18	4.23	514923	492520	5
o-Terphenyl	4.52	566390	492520	
c - 20	4.84	519117	492520	5
c - 22	5.35	521606	492520	6
c - 24	5.79	516514	492520	5
c - 26	6.18	511044	492520	4
c - 28	6.54	509782	492520	4
c - 30	6.88	507361	492520	3
c - 32	7.19	472532	492520	-4
c - 34	7.48	440291	492520	-11
c - 36	7.81	414308	492520	-16

* One compound allowed %D </= 50%

Samples
18A0652-03
18A0655-04
18A0655-12
18A0506-05@20X
18A0506-07@10X
18A0655-13@5X

D:\HPCHEM\1\DATA\A012418\A0124070.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124070.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	503436	522133	-4
c - 10	1.61	516895	522133	-1
c - 12	2.34	525915	522133	1
c - 14	3.01	535271	522133	3
c - 16	3.62	544425	522133	4
c - 18	4.23	547669	522133	5
o-Terphenyl	4.52	597386	522133	
c - 20	4.84	547217	522133	5
c - 22	5.35	545799	522133	5
c - 24	5.79	540488	522133	4
c - 26	6.18	536228	522133	3
c - 28	6.54	536980	522133	3
c - 30	6.88	536003	522133	3
c - 32	7.19	501106	522133	-4
c - 34	7.48	467505	522133	-10
c - 36	7.81	447057	522133	-14

* One compound allowed %D </= 50%

Samples
18A0655-19
18A0655-36
18A0655-28

D:\HPCHEM\1\DATA\A012418.SEC\A0124071.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124071.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	622719	643589	-3
c - 10	1.61	639149	643589	-1
c - 12	2.33	649677	643589	1
c - 14	2.99	659734	643589	3
c - 16	3.59	669274	643589	4
c - 18	4.19	671708	643589	4
o-Terphenyl	4.48	741334	643589	
c - 20	4.80	676540	643589	5
c - 22	5.30	676462	643589	5
c - 24	5.74	673424	643589	5
c - 26	6.13	668639	643589	4
c - 28	6.49	665404	643589	3
c - 30	6.82	660639	643589	3
c - 32	7.13	613360	643589	-5
c - 34	7.42	567571	643589	-12
c - 36	7.73	539534	643589	-16

* One compound allowed %D </= 50%

Samples
18A0554-27

D:\HPCHEM\1\DATA\A012418.SEC\A0124019.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/24/18
Data File Name	A0124019.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	602681	627275	-4
c - 10	1.61	615537	627275	-2
c - 12	2.33	624447	627275	0
c - 14	3.00	635686	627275	1
c - 16	3.59	647761	627275	3
c - 18	4.19	652301	627275	4
o-Terphenyl	4.48	725363	627275	
c - 20	4.80	658332	627275	5
c - 22	5.30	662575	627275	6
c - 24	5.74	659139	627275	5
c - 26	6.13	655191	627275	4
c - 28	6.49	654877	627275	4
c - 30	6.82	649949	627275	4
c - 32	7.13	603305	627275	-4
c - 34	7.42	559959	627275	-11
c - 36	7.73	527388	627275	-16

* One compound allowed %D </= 50%

Samples
18A0655-02
18A0655-06
18A0655-17
18A0655-14
18A0655-01
18A0582-16
18A0506-02
18A0582-04
18A0582-15
18A0582-27
18A0554-04

D:\HPCHEM\1\DATA\A012418\A0124018.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	/24/18
Data File Name	A0124018.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	473716	492520	-4
c - 10	1.61	483594	492520	-2
c - 12	2.34	491609	492520	0
c - 14	3.01	500621	492520	2
c - 16	3.62	510785	492520	4
c - 18	4.23	514923	492520	5
o-Terphenyl	4.52	566390	492520	
c - 20	4.84	519117	492520	5
c - 22	5.35	521606	492520	6
c - 24	5.79	516514	492520	5
c - 26	6.18	511044	492520	4
c - 28	6.54	509782	492520	4
c - 30	6.88	507361	492520	3
c - 32	7.19	472532	492520	-4
c - 34	7.48	440291	492520	-11
c - 36	7.81	414308	492520	-16

* One compound allowed %D </= 50%

Samples
18A0554-25
18A0574-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 107 Seldon St., Berlin, CT

Project Number: 18A0554

Laboratory Sample ID(s):

18A0554-01 thru 18A0554-27

Sample Date(s):

01/17/2018,
01/18/2018

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:** 01/26/18

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

January 26, 2018

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

Project Location: Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18A0582

Enclosed are results of analyses for samples received by the laboratory on January 18, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
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: 1/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0582

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

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-204A (0-0.5)	18A0582-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-204B (3-4)	18A0582-02	Soil		SM 2540G	
				SW-846 8082A	
B-204C (7-8)	18A0582-03	Soil		SM 2540G	
				SW-846 8082A	
B-204D (10-12)	18A0582-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
B-204E (13-14)	18A0582-05	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-203A (0-0.5)	18A0582-06	Soil		SM 2540G	
				SW-846 8082A	
B-203B (3-4)	18A0582-07	Soil		SM 2540G	
				SW-846 8082A	
B-203C (7-8)	18A0582-08	Soil		SM 2540G	
				SW-846 8082A	
B-202A (0-0.5)	18A0582-09	Soil		SM 2540G	
				SW-846 8082A	
B-202B (3-4)	18A0582-10	Soil		SM 2540G	
				SW-846 8082A	
B-202C (7-8)	18A0582-11	Soil		SM 2540G	
				SW-846 8082A	
B-201A (0-0.5)	18A0582-12	Soil		SM 2540G	
				SW-846 8082A	
B-201B (3-4)	18A0582-13	Soil		SM 2540G	
				SW-846 8082A	
B-201C (7-8)	18A0582-14	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 1/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0582

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

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-196A (0-0.5)	18A0582-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-196B (9-11)	18A0582-16	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-196C (13-14)	18A0582-17	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-197A (0-0.5)	18A0582-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-197B (10-12)	18A0582-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-197C (13-14)	18A0582-20	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-195A (0-0.5)	18A0582-21	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-195B (10-12)	18A0582-22	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	

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Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 1/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0582

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

PROJECT LOCATION: Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-195C (13-14)	18A0582-23	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-193A (0-0.5)	18A0582-24	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-193B (10-12)	18A0582-25	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-193C (13-14)	18A0582-26	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
B-192A (0-0.5)	18A0582-27	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8270D	
B-192B (10-12)	18A0582-28	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
B-192C (13-14)	18A0582-29	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	

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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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CTDEP ETPH

Qualifications:

MS-19

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

Analyte & Samples(s) Qualified:

CT ETPH
18A0582-01[B-204A (0-0.5)], B195253-MS1, B195253-MSD1

S-25

Surrogate recovery is outside of control limits due to suspected matrix interference. Samples of a clay-like matrix historically have exhibited low surrogate recovery.

Analyte & Samples(s) Qualified:

o-Terphenyl
18A0582-21[B-195A (0-0.5)]

SW-846 6010C-D

Qualifications:

DL-04

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

Analyte & Samples(s) Qualified:

Silver
18A0582-20[B-197C (13-14)]

Thallium
18A0582-19[B-197B (10-12)], 18A0582-20[B-197C (13-14)], 18A0582-25[B-193B (10-12)], 18A0582-26[B-193C (13-14)]

L-07

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

Analyte & Samples(s) Qualified:

Beryllium
B195242-BS1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
18A0582-01[B-204A (0-0.5)], B195242-MS1

Barium
18A0582-01[B-204A (0-0.5)], B195242-MS1

Thallium
18A0582-01[B-204A (0-0.5)], B195242-MS1

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
18A0582-11[B-202C (7-8)]

Decachlorobiphenyl [2C]
18A0582-11[B-202C (7-8)]

Tetrachloro-m-xylene
18A0582-11[B-202C (7-8)]

Tetrachloro-m-xylene [2C]
18A0582-11[B-202C (7-8)]

SW-846 8260C

Qualifications:

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L-03

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane

18A0582-04[B-204D (10-12)], 18A0582-16[B-196B (9-11)], 18A0582-19[B-197B (10-12)], 18A0582-22[B-195B (10-12)], 18A0582-25[B-193B (10-12)], 18A0582-28[B-192B (10-12)], B195288-BLK1, B195288-BS1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane

18A0582-04[B-204D (10-12)], 18A0582-16[B-196B (9-11)], 18A0582-19[B-197B (10-12)], 18A0582-22[B-195B (10-12)], 18A0582-25[B-193B (10-12)], 18A0582-28[B-192B (10-12)], B195288-BLK1, B195288-BS1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

18A0582-04[B-204D (10-12)], 18A0582-16[B-196B (9-11)], 18A0582-19[B-197B (10-12)], 18A0582-22[B-195B (10-12)], 18A0582-25[B-193B (10-12)], 18A0582-28[B-192B (10-12)], B195288-BLK1, B195288-BS1

SW-846 8270D

Qualifications:

E

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

Analyte & Samples(s) Qualified:

Fluoranthene

18A0582-18[B-197A (0-0.5)]

Pyrene

18A0582-18[B-197A (0-0.5)]

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

18A0582-01[B-204A (0-0.5)], 18A0582-04[B-204D (10-12)], 18A0582-15[B-196A (0-0.5)], 18A0582-16[B-196B (9-11)], 18A0582-18[B-197A (0-0.5)], 18A0582-18RE1[B-197A (0-0.5)], 18A0582-19[B-197B (10-12)], 18A0582-21[B-195A (0-0.5)], 18A0582-22[B-195B (10-12)], 18A0582-24[B-193A (0-0.5)], 18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)], B195254-BLK1, B195254-BS1, B195254-BSD1, B195254-MS1, B195254-MSD1

L-07

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

Analyte & Samples(s) Qualified:

Aniline

B195254-BS1

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:

4-Chloroaniline

18A0582-04[B-204D (10-12)], B195254-MS1, B195254-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:

Aniline

B195254-MSD1

Pyridine

B195254-MSD1

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V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)]

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

18A0582-01[B-204A (0-0.5)], 18A0582-04[B-204D (10-12)], 18A0582-15[B-196A (0-0.5)], 18A0582-16[B-196B (9-11)], 18A0582-18[B-197A (0-0.5)], 18A0582-18RE1[B-197A (0-0.5)], 18A0582-19[B-197B (10-12)], 18A0582-21[B-195A (0-0.5)], 18A0582-22[B-195B (10-12)], 18A0582-24[B-193A (0-0.5)], 18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)], B195254-BLK1, B195254-BS1, B195254-BSD1, B195254-MS1, B195254-MSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)]

V-20

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

18A0582-01[B-204A (0-0.5)], 18A0582-04[B-204D (10-12)], 18A0582-15[B-196A (0-0.5)], 18A0582-16[B-196B (9-11)], 18A0582-18[B-197A (0-0.5)], 18A0582-18RE1[B-197A (0-0.5)], 18A0582-19[B-197B (10-12)], 18A0582-21[B-195A (0-0.5)], 18A0582-22[B-195B (10-12)], 18A0582-24[B-193A (0-0.5)], B195254-BLK1, B195254-BS1, B195254-BSD1, B195254-MS1, B195254-MSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

18A0582-01[B-204A (0-0.5)], 18A0582-04[B-204D (10-12)], 18A0582-15[B-196A (0-0.5)], 18A0582-16[B-196B (9-11)], 18A0582-18[B-197A (0-0.5)], 18A0582-18RE1[B-197A (0-0.5)], 18A0582-19[B-197B (10-12)], 18A0582-21[B-195A (0-0.5)], 18A0582-22[B-195B (10-12)], 18A0582-24[B-193A (0-0.5)], 18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)], B195254-BLK1, B195254-BS1, B195254-BSD1, B195254-MS1, B195254-MSD1

4,6-Dinitro-2-methylphenol

18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)]

4-Chloroaniline

18A0582-01[B-204A (0-0.5)], 18A0582-04[B-204D (10-12)], 18A0582-15[B-196A (0-0.5)], 18A0582-16[B-196B (9-11)], 18A0582-18[B-197A (0-0.5)], 18A0582-18RE1[B-197A (0-0.5)], 18A0582-19[B-197B (10-12)], 18A0582-21[B-195A (0-0.5)], 18A0582-22[B-195B (10-12)], 18A0582-24[B-193A (0-0.5)], 18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)], B195254-BLK1, B195254-BS1, B195254-BSD1, B195254-MS1, B195254-MSD1

Aniline

18A0582-25[B-193B (10-12)], 18A0582-27[B-192A (0-0.5)], 18A0582-28[B-192B (10-12)]

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

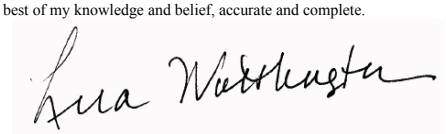
For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8270D

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

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

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



Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

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	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Chloroaniline	ND	0.82	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Fluoranthene	0.27	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

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	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Pyrene	0.25	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:32	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.7	30-130		1/23/18 11:32
Phenol-d6	46.1	30-130		1/23/18 11:32
Nitrobenzene-d5	45.4	30-130		1/23/18 11:32
2-Fluorobiphenyl	57.4	30-130		1/23/18 11:32
2,4,6-Tribromophenol	47.0	30-130		1/23/18 11:32
p-Terphenyl-d14	53.9	30-130		1/23/18 11:32

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

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	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1260 [2]	0.60	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 9:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	76.7	30-150				1/25/18 9:57	
Decachlorobiphenyl [2]	81.6	30-150				1/25/18 9:57	
Tetrachloro-m-xylene [1]	87.7	30-150				1/25/18 9:57	
Tetrachloro-m-xylene [2]	91.6	30-150				1/25/18 9:57	

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	120	mg/Kg dry	10	MS-19	CTDEP ETPH	1/22/18	1/23/18 17:21	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	63.8	50-150				1/23/18 17:21	

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1	MS-07	SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Arsenic	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Barium	42	2.1	mg/Kg dry	1	MS-07	SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Beryllium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Chromium	13	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Copper	16	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Lead	22	0.62	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Mercury	ND	0.032	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:51	EJB
Nickel	9.4	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Thallium	ND	2.1	mg/Kg dry	1	MS-07	SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Vanadium	23	0.83	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW
Zinc	36	0.83	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:05	QNW



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204A (0-0.5) | Sampled: 1/18/2018 08:50

Sample ID: 18A0582-01

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	79.4		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204B (3-4) | Sampled: 1/18/2018 08:52

Sample ID: 18A0582-02

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	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1221 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1232 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1242 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1248 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1254 [2]	0.50	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1260 [2]	1.4	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1262 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL
Aroclor-1268 [1]	ND	0.36	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 10:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		1/25/18 10:10
Decachlorobiphenyl [2]	94.7	30-150		1/25/18 10:10
Tetrachloro-m-xylene [1]	95.0	30-150		1/25/18 10:10
Tetrachloro-m-xylene [2]	101	30-150		1/25/18 10:10

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204B (3-4) | Sampled: 1/18/2018 08:52

Sample ID: 18A0582-02

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	85.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204C (7-8) | Sampled: 1/18/2018 08:54

Sample ID: 18A0582-03

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	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.0	30-150		1/25/18 12:02
Decachlorobiphenyl [2]	77.1	30-150		1/25/18 12:02
Tetrachloro-m-xylene [1]	88.8	30-150		1/25/18 12:02
Tetrachloro-m-xylene [2]	93.9	30-150		1/25/18 12:02



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204C (7-8) | Sampled: 1/18/2018 08:54

Sample ID: 18A0582-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Acrylonitrile	ND	0.0039	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Bromomethane	ND	0.0066	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 12:49	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Chlorodibromomethane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Chloromethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2-Dibromoethane (EDB)	ND	0.00066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,3-Dichloropropane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
2,2-Dichloropropane	ND	0.0026	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
cis-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Tetrahydrofuran	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
Vinyl Chloride	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 12:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		1/22/18 12:49
Toluene-d8	101	70-130		1/22/18 12:49
4-Bromofluorobenzene	97.5	70-130		1/22/18 12:49

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	L-04, MS-09, V-34	SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

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	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
N-Nitrosodiphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 11:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.2	30-130		1/23/18 11:54
Phenol-d6	52.6	30-130		1/23/18 11:54
Nitrobenzene-d5	59.9	30-130		1/23/18 11:54
2-Fluorobiphenyl	65.3	30-130		1/23/18 11:54
2,4,6-Tribromophenol	74.5	30-130		1/23/18 11:54
p-Terphenyl-d14	72.6	30-130		1/23/18 11:54

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

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	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.1	30-150		1/25/18 12:15
Decachlorobiphenyl [2]	76.6	30-150		1/25/18 12:15
Tetrachloro-m-xylene [1]	87.8	30-150		1/25/18 12:15
Tetrachloro-m-xylene [2]	90.6	30-150		1/25/18 12:15

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	39	11	mg/Kg dry	1		CTDEP ETPH	1/22/18	1/24/18 16:32	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	90.3	50-150				1/24/18 16:32	

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Barium	84	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Beryllium	0.38	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Chromium	17	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Copper	40	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Lead	8.7	0.56	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:38	EJB
Nickel	18	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Vanadium	28	0.74	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW
Zinc	44	0.74	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:09	QNW

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

Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204D (10-12) | Sampled: 1/18/2018 08:56

Sample ID: 18A0582-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204E (13-14) | Sampled: 1/18/2018 08:58

Sample ID: 18A0582-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Barium	140	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Beryllium	0.42	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Cadmium	0.25	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Chromium	17	0.36	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Copper	53	0.36	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Lead	8.2	0.54	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:39	EJB
Nickel	21	0.36	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Vanadium	31	0.73	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW
Zinc	57	0.73	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:13	QNW



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-204E (13-14) | Sampled: 1/18/2018 08:58

Sample ID: 18A0582-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203A (0-0.5) | Sampled: 1/18/2018 09:50

Sample ID: 18A0582-06

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	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1254 [2]	0.28	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1260 [1]	1.1	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		1/25/18 10:22
Decachlorobiphenyl [2]	89.8	30-150		1/25/18 10:22
Tetrachloro-m-xylene [1]	88.9	30-150		1/25/18 10:22
Tetrachloro-m-xylene [2]	92.1	30-150		1/25/18 10:22

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203A (0-0.5) | Sampled: 1/18/2018 09:50

Sample ID: 18A0582-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203B (3-4) | Sampled: 1/18/2018 09:52

Sample ID: 18A0582-07

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	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1254 [2]	1.2	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1260 [2]	2.7	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 10:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		1/25/18 10:35
Decachlorobiphenyl [2]	96.7	30-150		1/25/18 10:35
Tetrachloro-m-xylene [1]	91.3	30-150		1/25/18 10:35
Tetrachloro-m-xylene [2]	98.7	30-150		1/25/18 10:35

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203B (3-4) | Sampled: 1/18/2018 09:52

Sample ID: 18A0582-07

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	86.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:45	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203C (7-8) | Sampled: 1/18/2018 09:54

Sample ID: 18A0582-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1260 [2]	0.39	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 10:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		1/25/18 10:48
Decachlorobiphenyl [2]	79.6	30-150		1/25/18 10:48
Tetrachloro-m-xylene [1]	87.7	30-150		1/25/18 10:48
Tetrachloro-m-xylene [2]	89.9	30-150		1/25/18 10:48

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-203C (7-8) | Sampled: 1/18/2018 09:54

Sample ID: 18A0582-08

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	90.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202A (0-0.5) | Sampled: 1/18/2018 10:30

Sample ID: 18A0582-09

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	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1254 [2]	0.90	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1260 [2]	2.6	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		1/25/18 11:00
Decachlorobiphenyl [2]	90.9	30-150		1/25/18 11:00
Tetrachloro-m-xylene [1]	94.6	30-150		1/25/18 11:00
Tetrachloro-m-xylene [2]	101	30-150		1/25/18 11:00

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202A (0-0.5) | Sampled: 1/18/2018 10:30

Sample ID: 18A0582-09

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	76.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202B (3-4) | Sampled: 1/18/2018 10:32

Sample ID: 18A0582-10

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	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1221 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1232 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1242 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1248 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1254 [2]	1.5	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1260 [2]	4.0	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1262 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL
Aroclor-1268 [1]	ND	0.45	mg/Kg dry	20		SW-846 8082A	1/22/18	1/25/18 11:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.3	30-150		1/25/18 11:13
Decachlorobiphenyl [2]	92.8	30-150		1/25/18 11:13
Tetrachloro-m-xylene [1]	92.4	30-150		1/25/18 11:13
Tetrachloro-m-xylene [2]	99.4	30-150		1/25/18 11:13



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202B (3-4) | Sampled: 1/18/2018 10:32

Sample ID: 18A0582-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202C (7-8) | Sampled: 1/18/2018 10:34

Sample ID: 18A0582-11

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	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1221 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1232 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1242 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1248 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1254 [2]	2.1	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1260 [2]	5.0	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1262 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL
Aroclor-1268 [1]	ND	0.96	mg/Kg dry	40		SW-846 8082A	1/22/18	1/25/18 11:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	1/25/18 11:25
Decachlorobiphenyl [2]	*	30-150	S-01	1/25/18 11:25
Tetrachloro-m-xylene [1]	*	30-150	S-01	1/25/18 11:25
Tetrachloro-m-xylene [2]	*	30-150	S-01	1/25/18 11:25



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-202C (7-8) | Sampled: 1/18/2018 10:34

Sample ID: 18A0582-11

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	81.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201A (0-0.5) | Sampled: 1/18/2018 10:56

Sample ID: 18A0582-12

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	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1221 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1232 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1242 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1248 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1254 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1260 [2]	2.5	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1262 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL
Aroclor-1268 [1]	ND	0.45	mg/Kg dry	16		SW-846 8082A	1/22/18	1/25/18 11:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		1/25/18 11:37
Decachlorobiphenyl [2]	96.7	30-150		1/25/18 11:37
Tetrachloro-m-xylene [1]	95.7	30-150		1/25/18 11:37
Tetrachloro-m-xylene [2]	102	30-150		1/25/18 11:37

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201A (0-0.5) | Sampled: 1/18/2018 10:56

Sample ID: 18A0582-12

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	70.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201B (3-4) | Sampled: 1/18/2018 10:58

Sample ID: 18A0582-13

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	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1260 [2]	0.16	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 11:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.4	30-150		1/25/18 11:50
Decachlorobiphenyl [2]	78.0	30-150		1/25/18 11:50
Tetrachloro-m-xylene [1]	90.6	30-150		1/25/18 11:50
Tetrachloro-m-xylene [2]	94.6	30-150		1/25/18 11:50

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201B (3-4) | Sampled: 1/18/2018 10:58

Sample ID: 18A0582-13

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	92.0		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201C (7-8) | Sampled: 1/18/2018 11:00

Sample ID: 18A0582-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	1/22/18	1/25/18 12:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		1/25/18 12:27
Decachlorobiphenyl [2]	81.9	30-150		1/25/18 12:27
Tetrachloro-m-xylene [1]	91.8	30-150		1/25/18 12:27
Tetrachloro-m-xylene [2]	95.2	30-150		1/25/18 12:27

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-201C (7-8) | Sampled: 1/18/2018 11:00

Sample ID: 18A0582-14

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	76.0		% Wt	1		SM 2540G	1/19/18	1/22/18 7:46	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196A (0-0.5) | Sampled: 1/18/2018 11:50

Sample ID: 18A0582-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Benzo(a)anthracene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Benzo(a)pyrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Benzo(b)fluoranthene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Benzo(g,h,i)perylene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Chloroaniline	ND	0.76	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Chloro-3-methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Chrysene	0.28	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Fluoranthene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196A (0-0.5) | Sampled: 1/18/2018 11:50

Sample ID: 18A0582-15

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	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Phenanthrene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Pyrene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	45.7	30-130		1/23/18 12:17
Phenol-d6	46.6	30-130		1/23/18 12:17
Nitrobenzene-d5	48.8	30-130		1/23/18 12:17
2-Fluorobiphenyl	50.9	30-130		1/23/18 12:17
2,4,6-Tribromophenol	59.8	30-130		1/23/18 12:17
p-Terphenyl-d14	54.8	30-130		1/23/18 12:17

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196A (0-0.5) | Sampled: 1/18/2018 11:50

Sample ID: 18A0582-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	43	12	mg/Kg dry	1		CTDEP ETPH	1/22/18	1/24/18 16:50	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	75.2	50-150				1/24/18 16:50	

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Project Location: Berlin, CT
Sample Description:
Work Order: 18A0582
Date Received: 1/18/2018
Field Sample #: B-196A (0-0.5)
Sampled: 1/18/2018 11:50
Sample ID: 18A0582-15
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Barium	78	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Beryllium	0.35	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Chromium	17	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Copper	32	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Lead	13	0.58	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:41	EJB
Nickel	19	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Vanadium	30	0.77	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW
Zinc	48	0.77	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:16	QNW

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196A (0-0.5) | Sampled: 1/18/2018 11:50

Sample ID: 18A0582-15

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	85.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Acrylonitrile	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Bromomethane	ND	0.0070	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 13:16	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Chlorodibromomethane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Chloromethane	ND	0.0070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2-Dibromoethane (EDB)	ND	0.00070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,3-Dichloropropane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
cis-1,3-Dichloropropene	ND	0.00070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
trans-1,3-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Tetrahydrofuran	ND	0.0070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
Vinyl Chloride	ND	0.0070	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		1/22/18 13:16
Toluene-d8	103	70-130		1/22/18 13:16
4-Bromofluorobenzene	99.2	70-130		1/22/18 13:16

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

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	1/22/18	1/23/18 12:40	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

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	1/22/18	1/23/18 12:40	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 12:40	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.6	30-130		1/23/18 12:40
Phenol-d6	54.8	30-130		1/23/18 12:40
Nitrobenzene-d5	57.1	30-130		1/23/18 12:40
2-Fluorobiphenyl	68.6	30-130		1/23/18 12:40
2,4,6-Tribromophenol	69.8	30-130		1/23/18 12:40
p-Terphenyl-d14	80.2	30-130		1/23/18 12:40

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

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	1/22/18	1/24/18 15:57	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	86.3	50-150				1/24/18 15:57	

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Barium	270	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Beryllium	0.43	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Cadmium	0.25	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Chromium	20	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Copper	41	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Lead	9.8	0.56	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:47	EJB
Nickel	22	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Vanadium	30	0.75	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW
Zinc	52	0.75	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:20	QNW



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196B (9-11) | Sampled: 1/18/2018 11:52

Sample ID: 18A0582-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196C (13-14) | Sampled: 1/18/2018 11:54

Sample ID: 18A0582-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Barium	92	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Beryllium	0.41	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Chromium	15	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Copper	32	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Lead	7.3	0.55	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:48	EJB
Nickel	17	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Vanadium	29	0.73	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW
Zinc	53	0.73	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:32	QNW

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

Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-196C (13-14) | Sampled: 1/18/2018 11:54

Sample ID: 18A0582-17

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	89.3		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.74	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Acenaphthene	0.75	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Acenaphthylene	ND	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Aniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Aniline	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Anthracene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Anthracene	1.3	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Benzo(a)anthracene	3.3	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Benzo(a)anthracene	3.3	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Benzo(a)pyrene	3.0	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Benzo(a)pyrene	3.0	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Benzo(b)fluoranthene	3.6	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Benzo(b)fluoranthene	3.8	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Benzo(g,h,i)perylene	1.7	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Benzo(g,h,i)perylene	1.7	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Benzo(k)fluoranthene	1.4	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Benzo(k)fluoranthene	1.5	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Bis(2-chloroethoxy)methane	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Bis(2-chloroethyl)ether	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Bis(2-chloroisopropyl)ether	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Bromophenylphenylether	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Butylbenzylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Butylbenzylphthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Carbazole	0.49	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Carbazole	0.49	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Chloroaniline	ND	0.83	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	2	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Chloro-3-methylphenol	ND	0.83	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Chloronaphthalene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Chlorophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Chlorophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Chlorophenylphenylether	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Chrysene	3.2	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Chrysene	3.2	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

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	0.42	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Dibenz(a,h)anthracene	0.43	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Dibenzofuran	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Di-n-butylphthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
3,3-Dichlorobenzidine	ND	0.43	mg/Kg dry	2	V-34	SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4-Dichlorophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Diethylphthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4-Dimethylphenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Dimethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Dimethylphthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4,6-Dinitro-2-methylphenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4-Dinitrophenol	ND	0.83	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	2	V-20	SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4-Dinitrotoluene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,6-Dinitrotoluene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Di-n-octylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Di-n-octylphthalate	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Fluoranthene	7.1	0.21	mg/Kg dry	1	E	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Fluoranthene	7.1	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Fluorene	0.51	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Fluorene	0.53	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Hexachlorobenzene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Hexachlorobutadiene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Hexachlorocyclopentadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Hexachlorocyclopentadiene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Hexachloroethane	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Indeno(1,2,3-cd)pyrene	2.0	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Indeno(1,2,3-cd)pyrene	1.9	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Isophorone	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Methylnaphthalene	ND	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

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	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Methylphenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
3/4-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
3/4-Methylphenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Naphthalene	ND	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Nitroaniline	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
3-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
3-Nitroaniline	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Nitroaniline	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Nitrobenzene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2-Nitrophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
4-Nitrophenol	ND	0.83	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
N-Nitrosodiphenylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
N-Nitrosodiphenylamine	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
N-Nitrosodi-n-propylamine	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Pentachloronitrobenzene	ND	0.43	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Pentachloronitrobenzene	ND	0.85	mg/Kg dry	2	V-16	SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Pentachlorophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Phenanthrene	4.4	0.21	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Phenanthrene	4.5	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Phenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Pyrene	6.8	0.21	mg/Kg dry	1	E	SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Pyrene	6.3	0.43	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
Pyridine	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
Pyridine	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
1,2,4-Trichlorobenzene	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4,5-Trichlorophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:02	BGL
2,4,6-Trichlorophenol	ND	0.85	mg/Kg dry	2		SW-846 8270D	1/22/18	1/23/18 15:19	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.1	30-130		1/23/18 13:02

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

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		66.2	30-130					1/23/18 15:19	
Phenol-d6		62.8	30-130					1/23/18 13:02	
Phenol-d6		70.7	30-130					1/23/18 15:19	
Nitrobenzene-d5		64.5	30-130					1/23/18 13:02	
Nitrobenzene-d5		66.7	30-130					1/23/18 15:19	
2-Fluorobiphenyl		74.7	30-130					1/23/18 13:02	
2-Fluorobiphenyl		75.7	30-130					1/23/18 15:19	
2,4,6-Tribromophenol		86.0	30-130					1/23/18 13:02	
2,4,6-Tribromophenol		85.8	30-130					1/23/18 15:19	
p-Terphenyl-d14		94.6	30-130					1/23/18 13:02	
p-Terphenyl-d14		87.9	30-130					1/23/18 15:19	

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	130	mg/Kg dry	10		CTDEP ETPH	1/22/18	1/23/18 18:50	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	86.6	50-150				1/23/18 18:50	

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Project Location: Berlin, CT
Sample Description:
Work Order: 18A0582
Date Received: 1/18/2018
Field Sample #: B-197A (0-0.5)
Sampled: 1/18/2018 13:22
Sample ID: 18A0582-18
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Arsenic	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Barium	100	2.1	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Beryllium	0.44	0.21	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Cadmium	0.22	0.21	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Chromium	18	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Copper	27	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Lead	19	0.62	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Mercury	0.032	0.031	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:50	EJB
Nickel	19	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Vanadium	31	0.83	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW
Zinc	57	0.83	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:49	QNW



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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197A (0-0.5) | Sampled: 1/18/2018 13:22

Sample ID: 18A0582-18

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	78.7		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	1/22/18	1/22/18 13:43	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
2,2-Dichloropropane	ND	0.0029	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
trans-1,3-Dichloropropene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

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	1/22/18	1/22/18 13:43	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/22/18	1/22/18 13:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		1/22/18 13:43
Toluene-d8	104	70-130		1/22/18 13:43
4-Bromofluorobenzene	96.1	70-130		1/22/18 13:43

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Chloroaniline	ND	0.74	mg/Kg dry	1	L-04, V-34	SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	V-20	SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

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	1/22/18	1/23/18 13:25	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/22/18	1/23/18 13:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.7	30-130		1/23/18 13:25
Phenol-d6	55.4	30-130		1/23/18 13:25
Nitrobenzene-d5	43.1	30-130		1/23/18 13:25
2-Fluorobiphenyl	60.0	30-130		1/23/18 13:25
2,4,6-Tribromophenol	69.5	30-130		1/23/18 13:25
p-Terphenyl-d14	74.1	30-130		1/23/18 13:25

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

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	1/22/18	1/23/18 12:28	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	90.1	50-150				1/23/18 12:28	

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Date Received: 1/18/2018

Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Arsenic	9.4	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Barium	87	1.9	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Beryllium	0.30	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Cadmium	0.64	0.19	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Chromium	20	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Copper	43	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Lead	6.7	0.57	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:53	EJB
Nickel	21	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Thallium	ND	3.8	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/22/18	1/25/18 14:07	QNW
Vanadium	37	0.75	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW
Zinc	59	0.75	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:53	QNW



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Field Sample #: B-197B (10-12) | Sampled: 1/18/2018 13:24

Sample ID: 18A0582-19

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	87.2		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197C (13-14) | Sampled: 1/18/2018 13:26

Sample ID: 18A0582-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Barium	100	1.8	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Beryllium	0.60	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Cadmium	0.20	0.18	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Chromium	23	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Copper	33	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Lead	10	0.55	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/23/18	1/23/18 12:55	EJB
Nickel	30	0.37	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Silver	1.6	0.74	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/22/18	1/26/18 14:36	AMP
Thallium	ND	3.7	mg/Kg dry	2	DL-04	SW-846 6010C-D	1/22/18	1/26/18 14:36	AMP
Vanadium	28	0.74	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW
Zinc	85	0.74	mg/Kg dry	1		SW-846 6010C-D	1/22/18	1/24/18 16:56	QNW

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Project Location: Berlin, CT | Sample Description: | Work Order: 18A0582

Date Received: 1/18/2018

Field Sample #: B-197C (13-14) | Sampled: 1/18/2018 13:26

Sample ID: 18A0582-20

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	88.4		% Wt	1		SM 2540G	1/19/18	1/22/18 7:47	MRL