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con-test ANALYTICAL LABORATORY
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http://www.contestlabs.com 18501100 Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson
Address:	273 Dividend Road, Rocky Hill CT 06067
Phone:	1-800-SAMPSON
Project Name:	Basin Settling Basin
Project Location:	107 Selden St. Berlin, CT
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Gabriella Pylypiw & Will Sirotnak

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: Pqylypiw@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: Deelerm@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	ETPH	VOCs	RSR-15 Metals										
								2	2	2	3	1										
								I	I	I	V	IN										
								A	A	A	A	P										
1	MW-1	2/1/18	1030		X	GW	U	X	X	X	X	X										
2	MW-3		1045		X	GW		X	X	X	X	X										
3	MW-4		1400		X	GW		X			X	X										
4	MW-5		1200		X	GW		X	X	X	X	X										
5	MW-6		1325		X	GW		X	X	X	X	X										
6	DUP-1		—		X	GW		X	X	X	X	X										
7	TB-020118		—								X											
8	FB-1	↓	1400		X	O	↓	X	X	X	X	X										

ANALYSIS REQUESTED

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)
purged/unpurged H_2O

[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)

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Comments:
Please provide Chromatograms for the PCB samples and a low level 1016/1260 standard.

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: 2/2/18 10:15
Received by: (signature)		Date/Time: 2/2/18 10:15
Relinquished by: (signature)		Date/Time: 2/2/18 18:00
Received by: (signature)		Date/Time: 2.2.18 18:00
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 #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

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: 2-27-18 Time: 18:00

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

By Gun #: 573 Actual Temp - 4.0 / 4.4 2.8

Were samples within Temperature? 2-6°C: T 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.	37	1 Liter Plastic		16 oz Amb.	
HCL-	23	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	7	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

PHC2

Only one 1Liter amber sent for Sample ID MW-4

D:\HPCHEM\1\DATA\A020818\A0208086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	2/9/18
Data File Name	A0208086.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	623392	641744	-3
c - 10	1.61	631820	641744	-2
c - 12	2.33	637620	641744	-1
c - 14	3.01	646161	641744	1
c - 16	3.61	653701	641744	2
c - 18	4.23	655951	641744	2
o-Terphenyl	4.51	712481	641744	
c - 20	4.83	659907	641744	3
c - 22	5.34	660028	641744	3
c - 24	5.78	653596	641744	2
c - 26	6.17	647667	641744	1
c - 28	6.54	647614	641744	1
c - 30	6.87	650773	641744	1
c - 32	7.18	628035	641744	-2
c - 34	7.48	619029	641744	-4
c - 36	7.80	610874	641744	-5

* One compound allowed %D </= 50%

Samples
18B0001-01RE1@SPLP

D:\HPCHEM\1\DATA\A020818\A0208022.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	2/8/18
Data File Name	A0208022.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	499539	518171	-4
c - 10	1.61	506959	518171	-2
c - 12	2.34	510669	518171	-1
c - 14	3.01	517230	518171	0
c - 16	3.61	524554	518171	1
c - 18	4.23	526401	518171	2
o-Terphenyl	4.51	572934	518171	
c - 20	4.84	529386	518171	2
c - 22	5.34	530392	518171	2
c - 24	5.78	525775	518171	1
c - 26	6.18	522661	518171	1
c - 28	6.54	524064	518171	1
c - 30	6.87	529484	518171	2
c - 32	7.18	513985	518171	-1
c - 34	7.48	509911	518171	-2
c - 36	7.80	501555	518171	-3

* One compound allowed %D </= 50%

Samples
18B0146-05
18B0189-03@20X

D:\HPCHEM\1\DATA\A020818.SEC\A0208023.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	2/8/18
Data File Name	A0208023.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	607480	630795	-4
c - 10	1.61	615271	630795	-2
c - 12	2.33	618512	630795	-2
c - 14	2.99	624092	630795	-1
c - 16	3.59	643215	630795	2
c - 18	4.19	646908	630795	3
o-Terphenyl	4.47	705264	630795	
c - 20	4.79	653232	630795	4
c - 22	5.30	653518	630795	4
c - 24	5.73	649026	630795	3
c - 26	6.12	642423	630795	2
c - 28	6.48	640586	630795	2
c - 30	6.81	641998	630795	2
c - 32	7.12	618021	630795	-2
c - 34	7.42	609882	630795	-3
c - 36	7.72	597757	630795	-5

* One compound allowed %D </= 50%

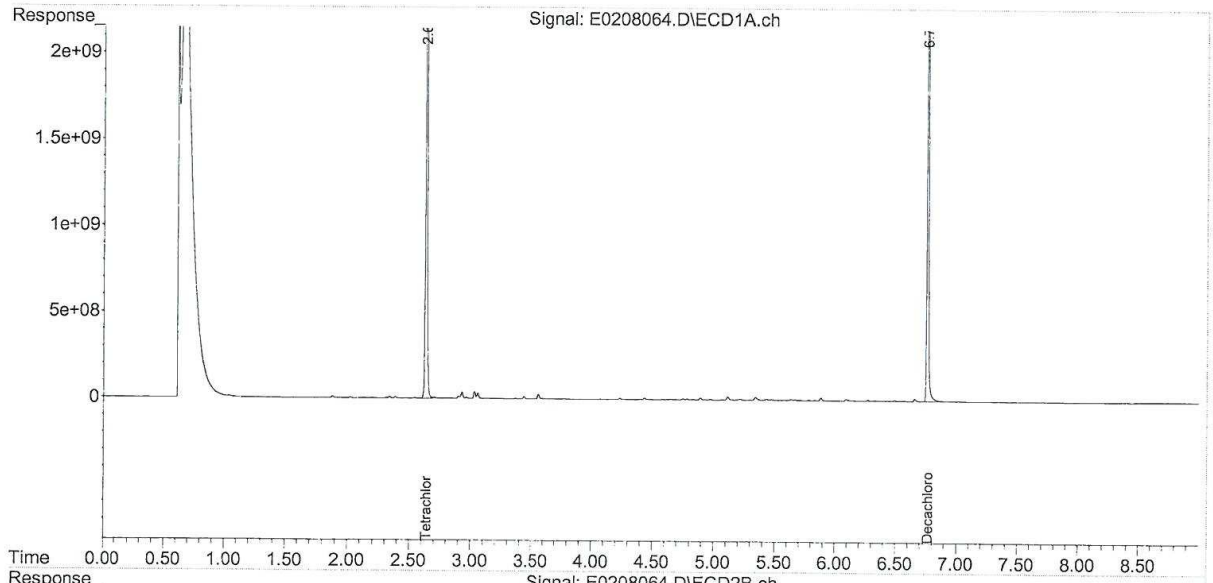
Samples
18B0100-04
18B0100-05
18B0100-06
18B0100-08
18B0146-04
18B0146-06
18B0146-07
18B0146-08
18B0146-02
18B0146-03
18B0146-01
18B0100-01
18B0100-02
18B0094-01

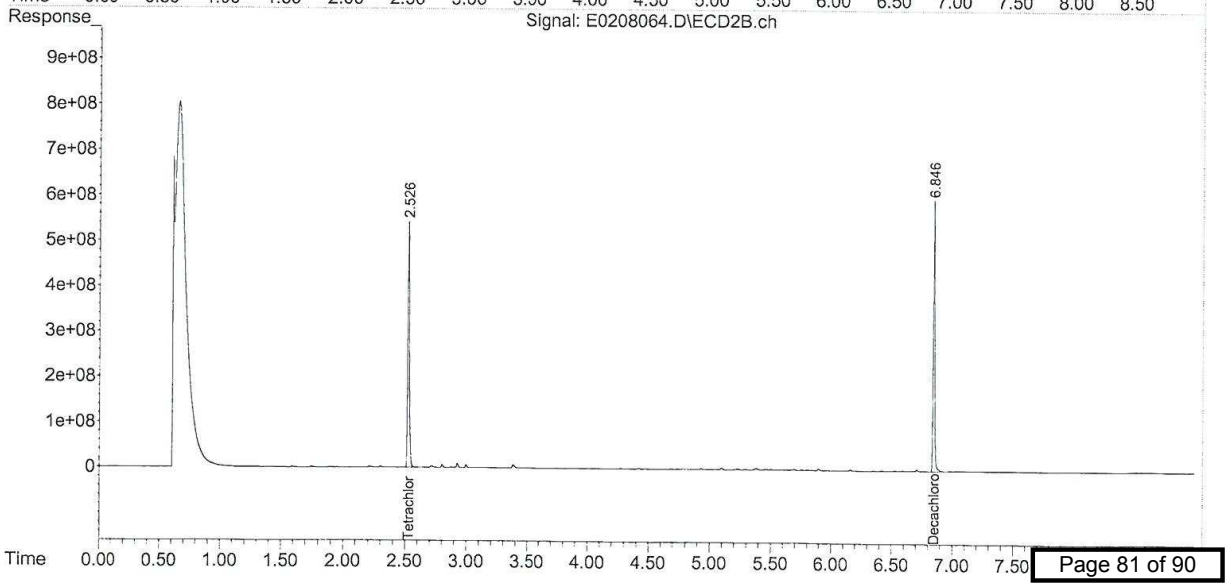
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Feb 2018 9:44 am
Operator : JMB
Sample : 18B0100-01 Inst : ECD 5
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 11:57:55 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title : 1260/1016 01/19/18 11/07/17 ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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



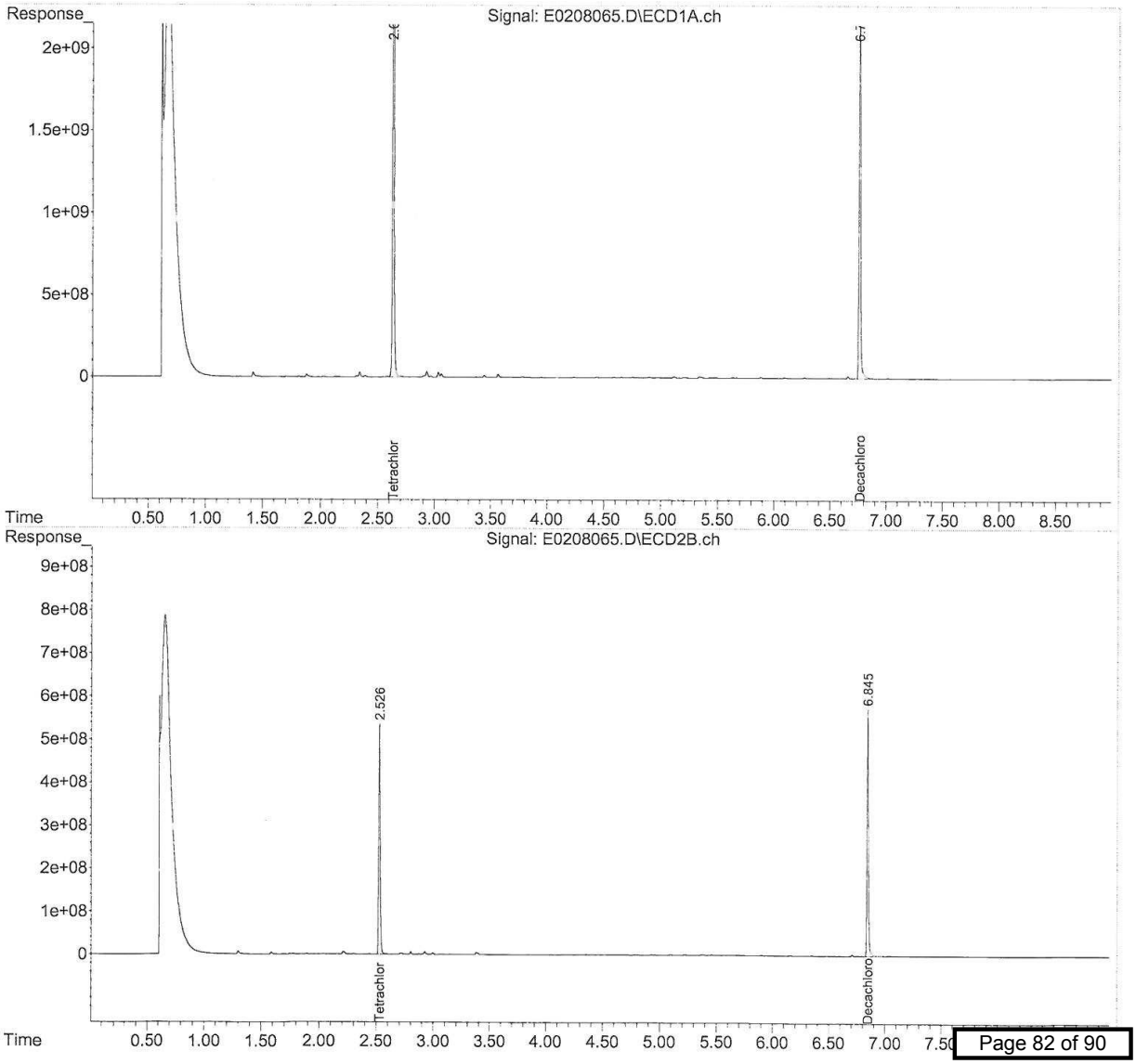


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208065.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Feb 2018 9:57 am
Operator : JMB
Sample : 18B0100-02 Inst : ECD 5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 11:58:09 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title : 1260/1016 01/19/18 11/07/17 ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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

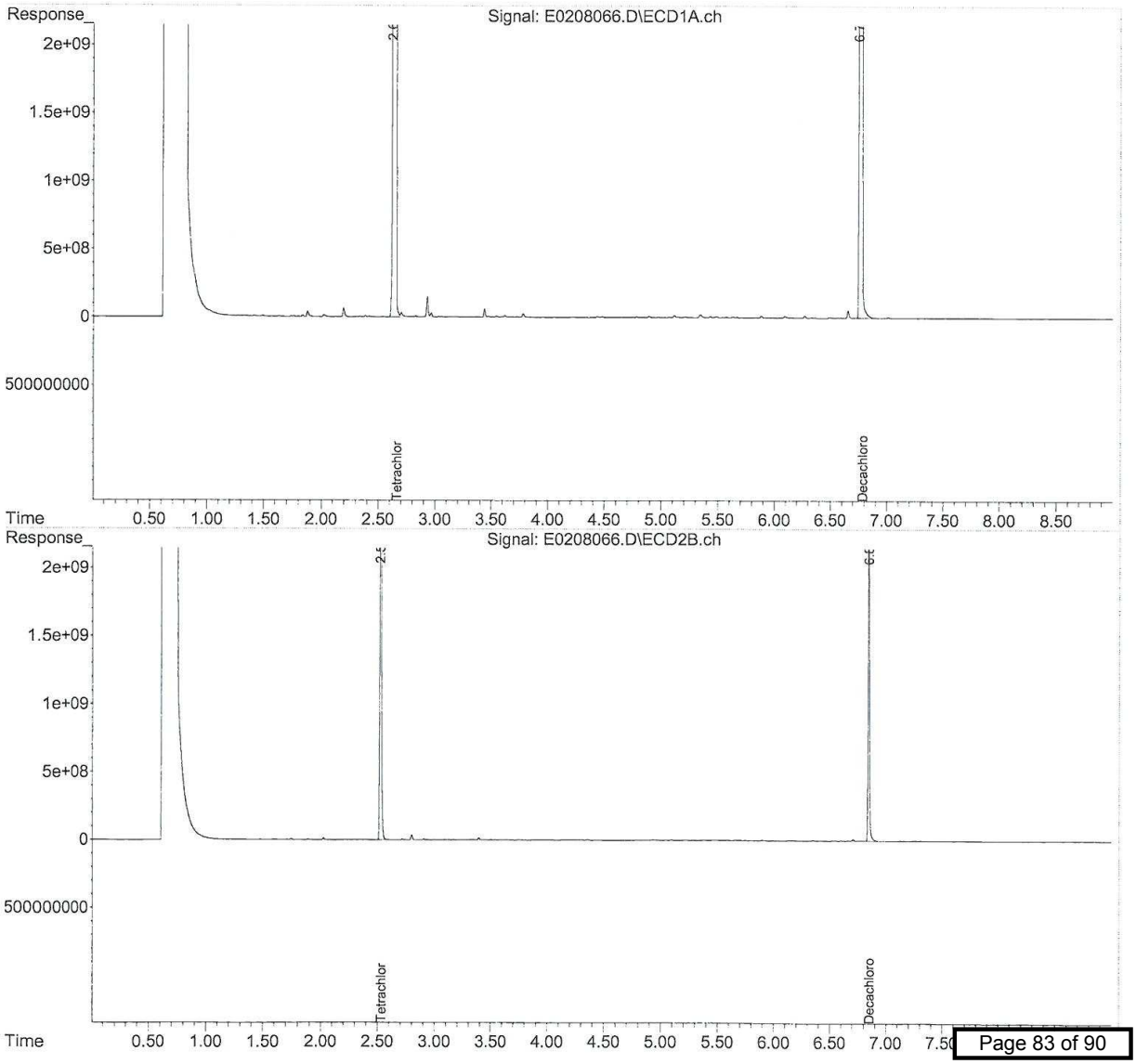


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208066.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Feb 2018 10:10 am
Operator : JMB
Sample : 18B0100-03 Inst : ECD 5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 11:58:49 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title : 1260/1016 01/19/18 11/07/17 ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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

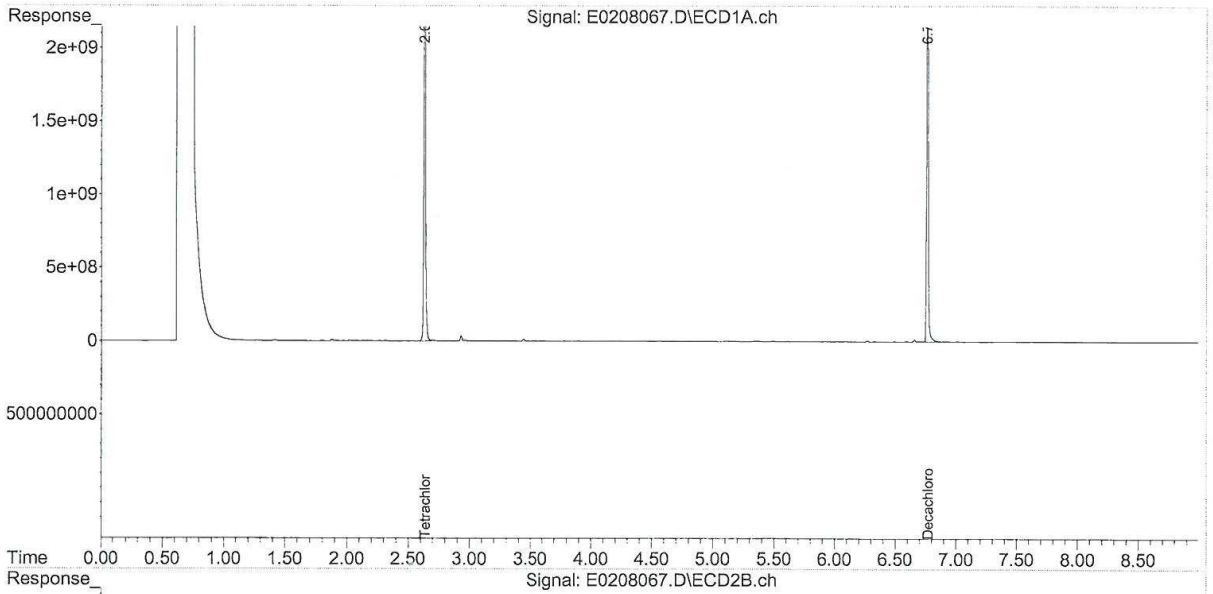


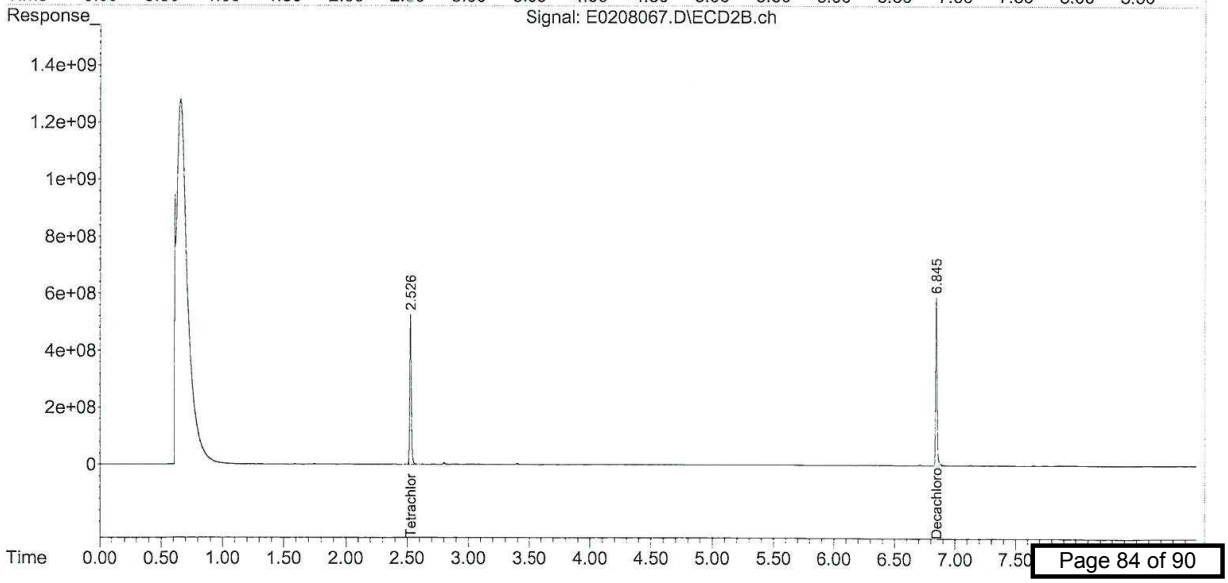
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208067.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  9 Feb 2018  10:23 am
Operator  : JMB
Sample    : 18B0100-04                              Inst    : ECD 5
Misc      :
ALS Vial  : 67   Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 12:00:25 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title  : 1260/1016   01/19/18   11/07/17   ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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



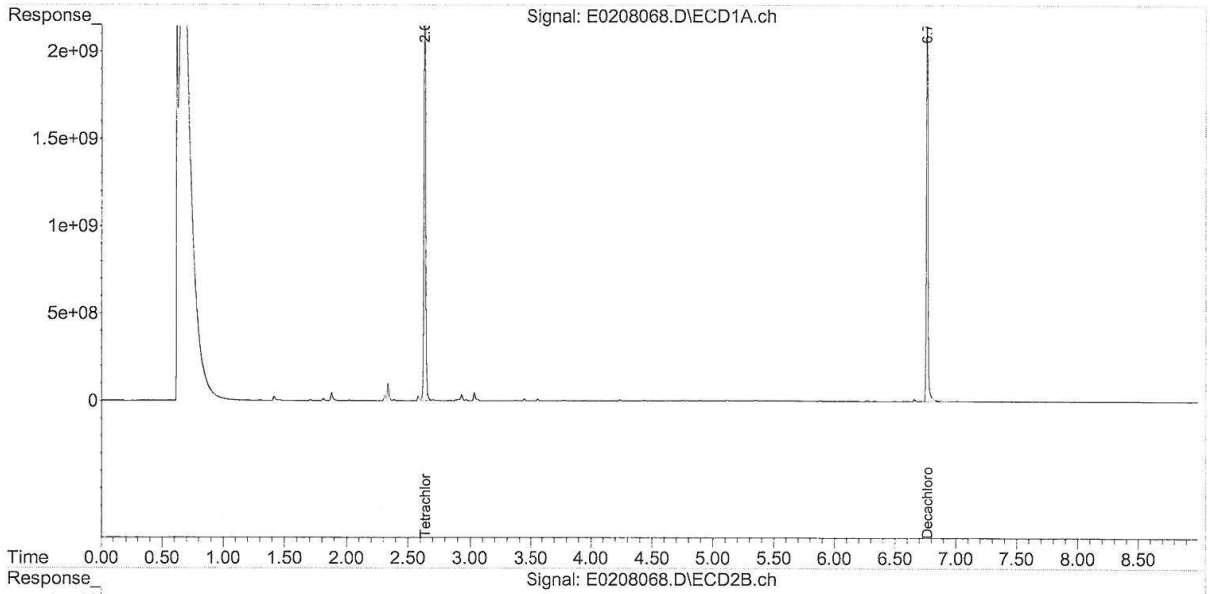


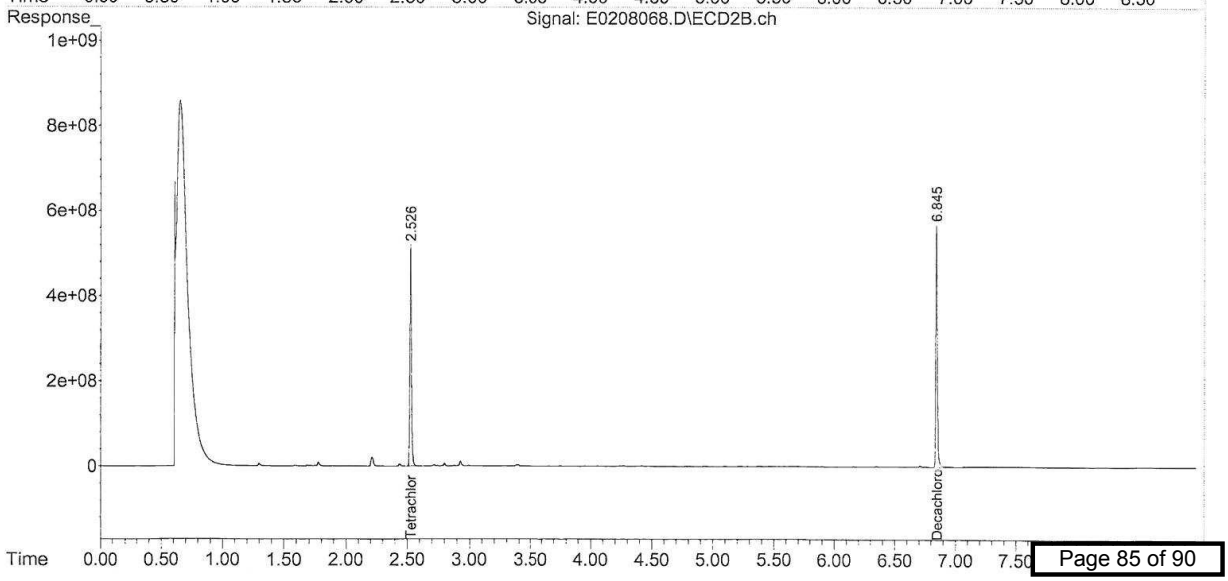
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208068.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Feb 2018 10:36 am
Operator : JMB
Sample : 18B0100-05 Inst : ECD 5
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 12:00:50 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title : 1260/1016 01/19/18 11/07/17 ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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



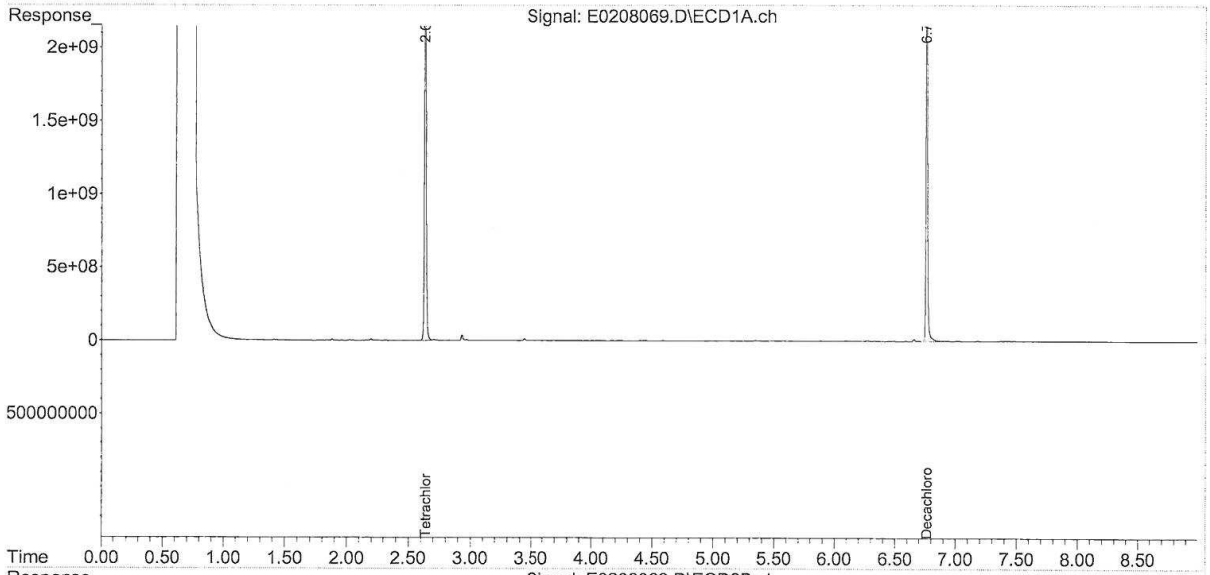


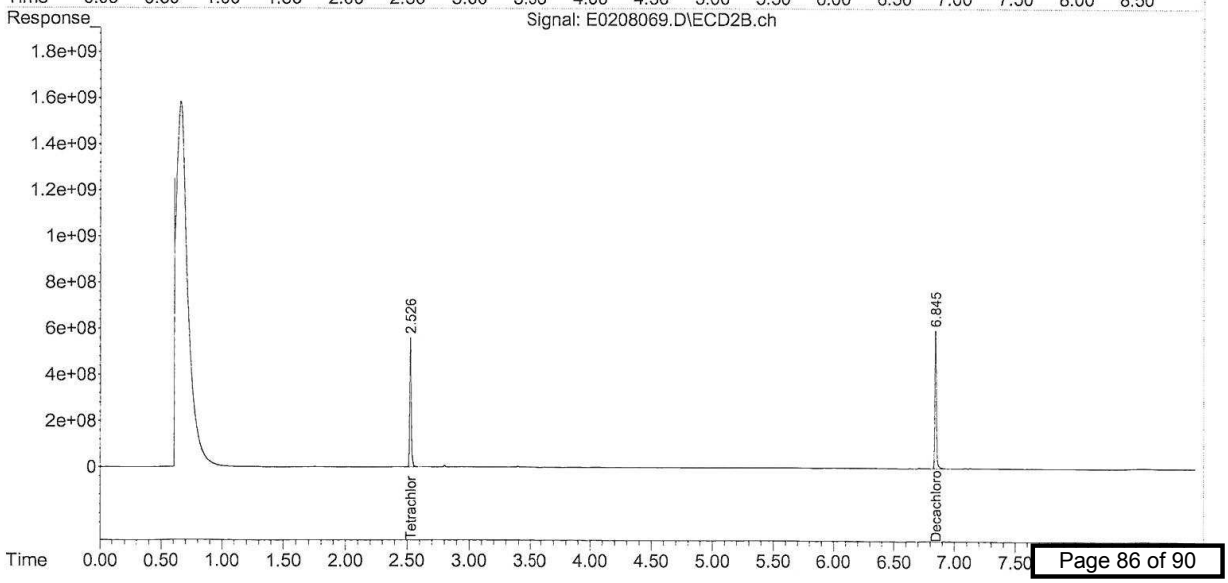
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Feb 2018 10:49 am
Operator : JMB
Sample : 18B0100-06 Inst : ECD 5
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 12:02:02 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title : 1260/1016 01/19/18 11/07/17 ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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



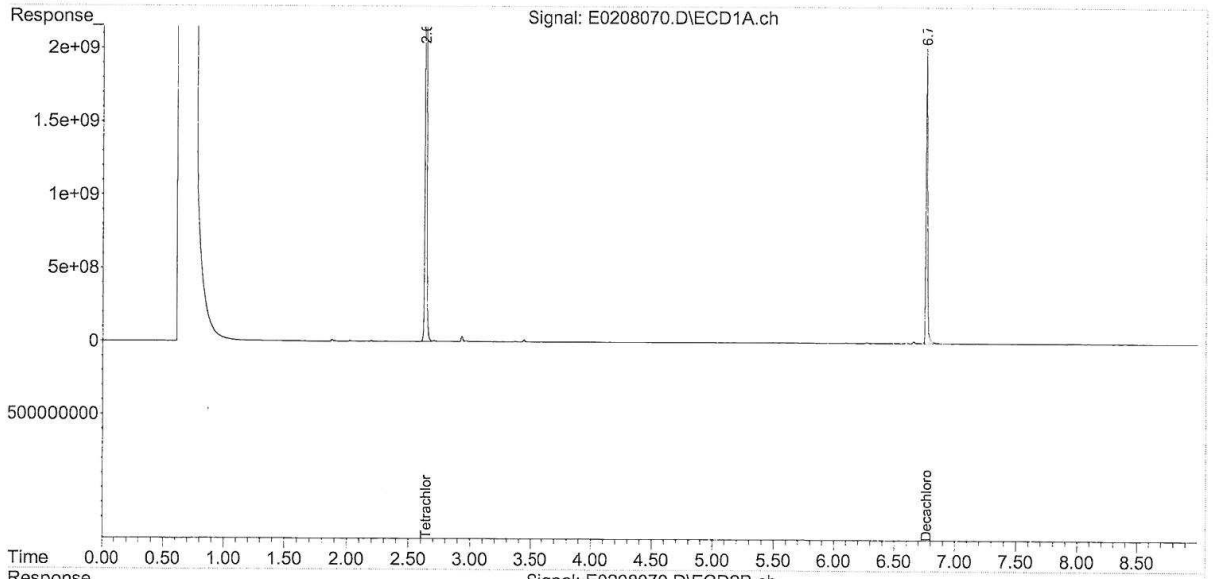


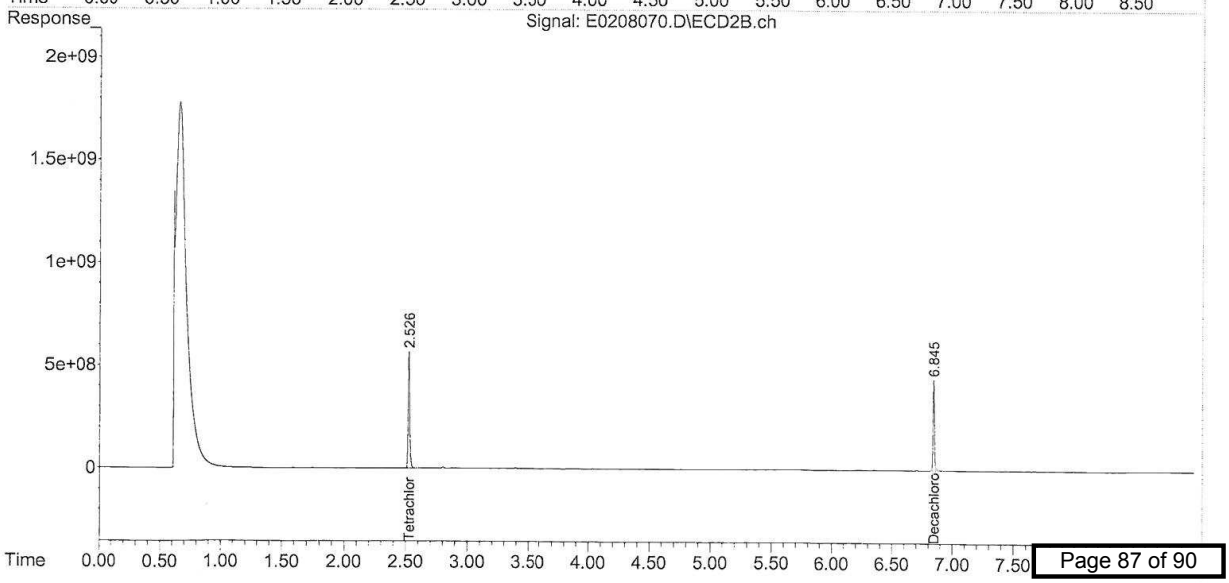
Quantitation Report (Not Reviewed)

```
Data Path : C:\msdchem\1\DATA\020818\
Data File : E0208070.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  9 Feb 2018  11:02 am
Operator  : JMB
Sample    : 18B0100-08                                  Inst    : ECD 5
Misc      :
ALS Vial  : 70   Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Feb 09 11:52:32 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918C.M
Quant Title  : 1260/1016   01/19/18   11/07/17   ICAL 1800018
QLast Update : Mon Jan 22 13:36:44 2018
Response via : Initial Calibration
Integrator: ChemStation

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





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\011918\
Data File : E0119015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jan 2018 7:13 pm
Operator : JMB
Sample : 1260/1016 20 Inst : ECD 5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Jan 22 13:35:08 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918.M
Quant Title : 1260/1016 01/10/18 11/07/17 ICAL 1800014
QLast Update : Thu Jan 11 08:43:11 2018
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	SA Tetrachlo...	2.634	2.526	2639.3E6	568.0E6	17.378	20.690
2)	SA Decachlor...	6.763	6.848	2068.0E6	544.1E6	20.089	20.640
	Target Compounds						
3)	L1 1016{1}	3.179	3.353	103.2E6	8249711	21.165	20.884
4)	L1 1016{2}	3.335	3.511	42480315	25411571	20.021	19.485
5)	L1 1016{3}	3.532	3.607	121.2E6	17698793	19.557	22.821
6)	L1 1016{4}	3.632	3.683	91772424	10770311	20.377	22.295
7)	L1 1016{5}	3.943	3.756	69834595	10383660	20.948	23.788
	Sum 1016			428.5E6	72514045	102.068	109.274
Average	1016					20.414	21.855
8)	L7 1260{1}	4.895	4.933	149.5E6	32185807	24.043	25.628
9)	L7 1260{2}	5.117	5.100	213.3E6	38241956	23.345	24.433
10)	L7 1260{3}	5.433	5.460	149.0E6	27580894	24.552	23.618
11)	L7 1260{4}	5.634	5.697	165.4E6	30255711	26.975	23.344
12)	L7 1260{5}	5.883	5.900	304.1E6	66453110	23.112	22.389
	Sum 1260			981.2E6	194.7E6	122.028	119.412
Average	1260					24.406	23.882

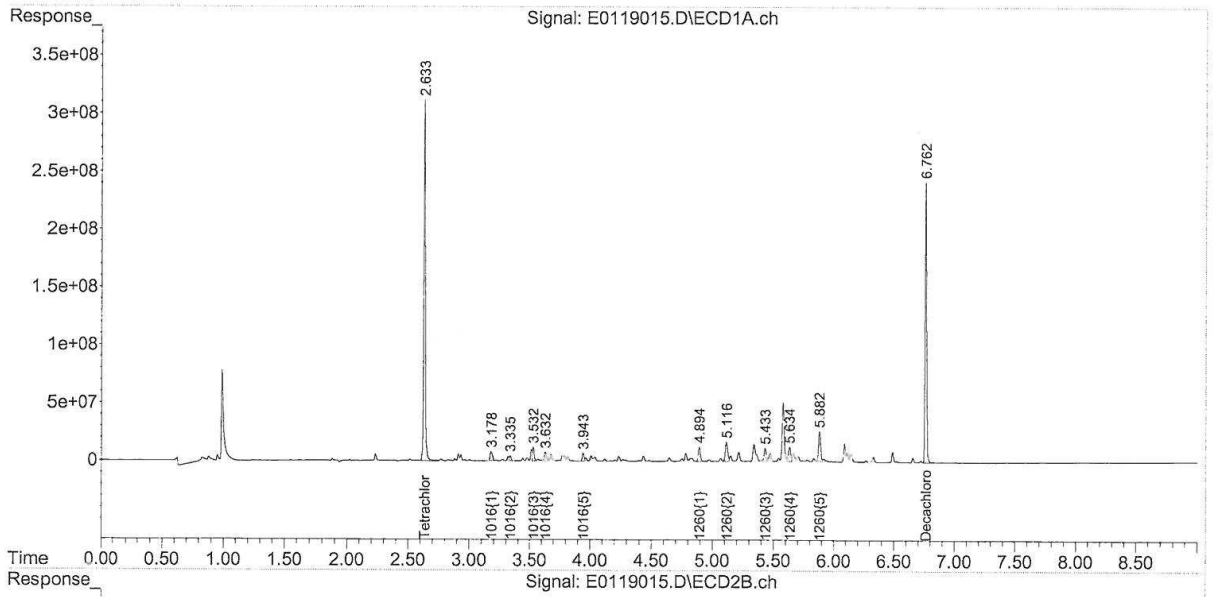
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : C:\msdchem\1\DATA\011918\
Data File : E0119015.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 19 Jan 2018    7:13 pm
Operator  : JMB
Sample    : 1260/1016 20                              Inst    : ECD 5
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Jan 22 13:35:08 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-011918.M
Quant Title  : 1260/1016   01/10/18   11/07/17   ICAL 1800014
QLast Update : Thu Jan 11 08:43:11 2018
Response via : Initial Calibration
Integrator: ChemStation

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



REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 107 Selden St., Berlin, CT

Project Number: 18B0100

Laboratory Sample ID(s):

18B0100-01 thru 18B0100-08

Sample Date(s):

02/01/2018

List RCP Methods Used:

CTDEP ETPH, SW-846 6020A-B, SW-846 7470A, 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:** 02/09/18

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

March 13, 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: 18C0362

Enclosed are results of analyses for samples received by the laboratory on March 8, 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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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 3/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0362

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-217A (0-0.5)	18C0362-01	Soil		SM 2540G	
				SW-846 8082A	
B-217B (7-8)	18C0362-02	Soil		SM 2540G	
				SW-846 8082A	
B-218A (0-0.5)	18C0362-03	Soil		SM 2540G	
				SW-846 8082A	
B-218B (3-4)	18C0362-04	Soil		SM 2540G	
				SW-846 8082A	
B-219A (0-0.5)	18C0362-05	Soil		SM 2540G	
				SW-846 8082A	
B-219B (3-4)	18C0362-06	Soil		SM 2540G	
				SW-846 8082A	
B-220A (0-0.5)	18C0362-07	Soil		SM 2540G	
				SW-846 8082A	
B-220B (3-4)	18C0362-08	Soil		SM 2540G	
				SW-846 8082A	
B-221A (0-1)	18C0362-09	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8270D	
B-221B (3-4)	18C0362-10	Soil		SM 2540G	
				SW-846 8082A	
B-222A (0-0.5)	18C0362-11	Soil		SM 2540G	
				SW-846 8082A	
B-222B (3-4)	18C0362-12	Soil		SM 2540G	
				SW-846 8082A	
B-223A (0-0.5)	18C0362-13	Soil		SM 2540G	
				SW-846 8082A	
B-223B (3-4)	18C0362-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
B-224A (0-0.5)	18C0362-15	Soil		SM 2540G	
				SW-846 8082A	
B-224B (3-4)	18C0362-16	Soil		SM 2540G	
				SW-846 8082A	
B-224C (7-8)	18C0362-17	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 3/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0362

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-225A (0-0.5)	18C0362-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
B-225B (3-4)	18C0362-19	Soil		SM 2540G	
				SW-846 8082A	
B-225C (7-8)	18C0362-20	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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CTDEP ETPH

Qualifications:

MS-12

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

Analyte & Samples(s) Qualified:

CT ETPH

18C0362-14[B-223B (3-4)], B198557-MS1, B198557-MSD1

SW-846 6010C-D

Qualifications:

DL-04

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

Analyte & Samples(s) Qualified:

Silver

18C0362-09[B-221A (0-1)], 18C0362-18[B-225A (0-0.5)], B198516-DUP1

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:

Selenium

18C0362-09[B-221A (0-1)], 18C0362-18[B-225A (0-0.5)], B198516-MS1, B198516-MS2, B198516-MSD1, B198516-MSD2

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

18C0362-09[B-221A (0-1)], 18C0362-18[B-225A (0-0.5)], B198516-MS1, B198516-MS2, B198516-MSD1, B198516-MSD2

MS-12

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

Analyte & Samples(s) Qualified:

Barium

18C0362-09[B-221A (0-1)], 18C0362-18[B-225A (0-0.5)], B198516-MS1, B198516-MS2, B198516-MSD1, B198516-MSD2

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:

Lead

B198516-MS1

Vanadium

18C0362-09[B-221A (0-1)], 18C0362-18[B-225A (0-0.5)], B198516-MS1, B198516-MS2

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Copper

18C0362-09[B-221A (0-1)], B198516-DUP1

SW-846 8270D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

4-Chloroaniline

18C0362-09[B-221A (0-1)], 18C0362-14[B-223B (3-4)], B198562-BLK1, B198562-BS1, B198562-BSD1

Aniline

18C0362-09[B-221A (0-1)], 18C0362-14[B-223B (3-4)], B198562-BLK1, B198562-BS1, B198562-BSD1

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MS-09

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18C0362-09[B-221A (0-1)], B198562-MS1, B198562-MSD1

4-Chloroaniline
18C0362-09[B-221A (0-1)], B198562-MS1, B198562-MSD1

Aniline
18C0362-09[B-221A (0-1)], B198562-MS1, B198562-MSD1

Hexachlorocyclopentadiene
18C0362-09[B-221A (0-1)], B198562-MS1, B198562-MSD1

Pyridine
18C0362-09[B-221A (0-1)], B198562-MS1, B198562-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:

4-Chloroaniline
18C0362-09[B-221A (0-1)], 18C0362-14[B-223B (3-4)], B198562-BLK1, B198562-BS1, B198562-BSD1, B198562-MS1, B198562-MSD1

Aniline
18C0362-09[B-221A (0-1)], 18C0362-14[B-223B (3-4)], B198562-BLK1, B198562-BS1, B198562-BSD1, B198562-MS1, B198562-MSD1

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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-217A (0-0.5) | Sampled: 3/8/2018 09:00

Sample ID: 18C0362-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		3/11/18 17:24
Decachlorobiphenyl [2]	90.3	30-150		3/11/18 17:24
Tetrachloro-m-xylene [1]	89.6	30-150		3/11/18 17:24
Tetrachloro-m-xylene [2]	92.9	30-150		3/11/18 17:24

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-217A (0-0.5) | Sampled: 3/8/2018 09:00

Sample ID: 18C0362-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:48	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-217B (7-8) | Sampled: 3/8/2018 09:05

Sample ID: 18C0362-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 17:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		3/11/18 17:42
Decachlorobiphenyl [2]	85.9	30-150		3/11/18 17:42
Tetrachloro-m-xylene [1]	84.7	30-150		3/11/18 17:42
Tetrachloro-m-xylene [2]	87.9	30-150		3/11/18 17:42

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-217B (7-8) | Sampled: 3/8/2018 09:05

Sample ID: 18C0362-02

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	90.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:48	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-218A (0-0.5) | Sampled: 3/8/2018 09:35

Sample ID: 18C0362-03

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	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1260 [1]	0.13	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.9	30-150		3/11/18 18:00
Decachlorobiphenyl [2]	81.3	30-150		3/11/18 18:00
Tetrachloro-m-xylene [1]	76.5	30-150		3/11/18 18:00
Tetrachloro-m-xylene [2]	77.7	30-150		3/11/18 18:00

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-218A (0-0.5) | Sampled: 3/8/2018 09:35

Sample ID: 18C0362-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	3/8/18	3/9/18 10:48	MJR

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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-218B (3-4) | Sampled: 3/8/2018 09:40

Sample ID: 18C0362-04

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	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		3/11/18 18:18
Decachlorobiphenyl [2]	78.5	30-150		3/11/18 18:18
Tetrachloro-m-xylene [1]	54.2	30-150		3/11/18 18:18
Tetrachloro-m-xylene [2]	56.8	30-150		3/11/18 18:18

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-218B (3-4) | Sampled: 3/8/2018 09:40

Sample ID: 18C0362-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	3/8/18	3/9/18 10:48	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-219A (0-0.5) | Sampled: 3/8/2018 09:55

Sample ID: 18C0362-05

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	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.2	30-150		3/11/18 18:36
Decachlorobiphenyl [2]	74.6	30-150		3/11/18 18:36
Tetrachloro-m-xylene [1]	74.9	30-150		3/11/18 18:36
Tetrachloro-m-xylene [2]	78.4	30-150		3/11/18 18:36

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-219A (0-0.5) | Sampled: 3/8/2018 09:55

Sample ID: 18C0362-05

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	86.0		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-219B (3-4) | Sampled: 3/8/2018 10:00

Sample ID: 18C0362-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 18:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.1	30-150		3/11/18 18:54
Decachlorobiphenyl [2]	84.3	30-150		3/11/18 18:54
Tetrachloro-m-xylene [1]	84.6	30-150		3/11/18 18:54
Tetrachloro-m-xylene [2]	87.5	30-150		3/11/18 18:54

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-219B (3-4) | Sampled: 3/8/2018 10:00

Sample ID: 18C0362-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-220A (0-0.5) | Sampled: 3/8/2018 10:15

Sample ID: 18C0362-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.0	30-150		3/11/18 19:12
Decachlorobiphenyl [2]	63.5	30-150		3/11/18 19:12
Tetrachloro-m-xylene [1]	66.3	30-150		3/11/18 19:12
Tetrachloro-m-xylene [2]	68.7	30-150		3/11/18 19:12

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-220A (0-0.5) | Sampled: 3/8/2018 10:15

Sample ID: 18C0362-07

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	87.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-220B (3-4) | Sampled: 3/8/2018 10:20

Sample ID: 18C0362-08

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	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1260 [1]	3.1	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	3/9/18	3/12/18 12:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		3/12/18 12:25
Decachlorobiphenyl [2]	106	30-150		3/12/18 12:25
Tetrachloro-m-xylene [1]	95.1	30-150		3/12/18 12:25
Tetrachloro-m-xylene [2]	99.3	30-150		3/12/18 12:25

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-220B (3-4) | Sampled: 3/8/2018 10:20

Sample ID: 18C0362-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221A (0-1) | Sampled: 3/8/2018 10:30

Sample ID: 18C0362-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Aniline	ND	0.39	mg/Kg dry	1	L-04, MS-09, V-34	SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Chloroaniline	ND	0.76	mg/Kg dry	1	L-04, MS-09, V-34	SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Chloro-3-methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Fluoranthene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1	MS-09	SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221A (0-1) | Sampled: 3/8/2018 10:30

Sample ID: 18C0362-09

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	3/9/18	3/12/18 11:48	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Pyrene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
Pyridine	ND	0.39	mg/Kg dry	1	MS-09	SW-846 8270D	3/9/18	3/12/18 11:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 11:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.5	30-130		3/12/18 11:48
Phenol-d6	53.0	30-130		3/12/18 11:48
Nitrobenzene-d5	58.5	30-130		3/12/18 11:48
2-Fluorobiphenyl	54.6	30-130		3/12/18 11:48
2,4,6-Tribromophenol	48.1	30-130		3/12/18 11:48
p-Terphenyl-d14	62.0	30-130		3/12/18 11:48

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221A (0-1) | Sampled: 3/8/2018 10:30

Sample ID: 18C0362-09

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	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1260 [2]	0.22	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 19:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.0	30-150		3/11/18 19:48
Decachlorobiphenyl [2]	94.5	30-150		3/11/18 19:48
Tetrachloro-m-xylene [1]	93.8	30-150		3/11/18 19:48
Tetrachloro-m-xylene [2]	96.0	30-150		3/11/18 19:48

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221A (0-1) Sampled: 3/8/2018 10:30

Sample ID: 18C0362-09

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	MS-07A	SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Barium	70	1.9	mg/Kg dry	1	MS-12	SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Beryllium	0.20	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Cadmium	0.23	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Chromium	14	0.38	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Copper	27	0.38	mg/Kg dry	1	R-02	SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Lead	13	0.57	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	3/9/18	3/12/18 9:39	EJB
Nickel	14	0.38	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Selenium	ND	3.8	mg/Kg dry	1	MS-07	SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Silver	ND	0.76	mg/Kg dry	2	DL-04	SW-846 6010C-D	3/9/18	3/12/18 15:48	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Vanadium	40	0.76	mg/Kg dry	1	MS-22	SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW
Zinc	47	0.76	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:28	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221A (0-1) | Sampled: 3/8/2018 10:30

Sample ID: 18C0362-09

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	87.0		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221B (3-4) | Sampled: 3/8/2018 10:35

Sample ID: 18C0362-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 20:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		3/11/18 20:06
Decachlorobiphenyl [2]	88.4	30-150		3/11/18 20:06
Tetrachloro-m-xylene [1]	92.1	30-150		3/11/18 20:06
Tetrachloro-m-xylene [2]	94.5	30-150		3/11/18 20:06

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-221B (3-4) | Sampled: 3/8/2018 10:35

Sample ID: 18C0362-10

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	92.2		% Wt	1		SM 2540G	3/8/18	3/9/18 10:49	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-222A (0-0.5) | Sampled: 3/8/2018 10:50

Sample ID: 18C0362-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1260 [2]	0.99	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		3/11/18 21:32
Decachlorobiphenyl [2]	95.4	30-150		3/11/18 21:32
Tetrachloro-m-xylene [1]	96.9	30-150		3/11/18 21:32
Tetrachloro-m-xylene [2]	98.9	30-150		3/11/18 21:32

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-222A (0-0.5) | Sampled: 3/8/2018 10:50

Sample ID: 18C0362-11

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	85.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-222B (3-4) | Sampled: 3/8/2018 10:55

Sample ID: 18C0362-12

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	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1260 [2]	0.094	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 21:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.6	30-150		3/11/18 21:49
Decachlorobiphenyl [2]	105	30-150		3/11/18 21:49
Tetrachloro-m-xylene [1]	112	30-150		3/11/18 21:49
Tetrachloro-m-xylene [2]	113	30-150		3/11/18 21:49

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-222B (3-4) | Sampled: 3/8/2018 10:55

Sample ID: 18C0362-12

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	86.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223A (0-0.5) | Sampled: 3/8/2018 11:00

Sample ID: 18C0362-13

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	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1260 [2]	0.14	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		3/11/18 22:07
Decachlorobiphenyl [2]	91.4	30-150		3/11/18 22:07
Tetrachloro-m-xylene [1]	93.1	30-150		3/11/18 22:07
Tetrachloro-m-xylene [2]	94.0	30-150		3/11/18 22:07

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223A (0-0.5) | Sampled: 3/8/2018 11:00

Sample ID: 18C0362-13

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	83.0		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223B (3-4) | Sampled: 3/8/2018 11:05

Sample ID: 18C0362-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Aniline	ND	0.39	mg/Kg dry	1	L-04, V-34	SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	L-04, V-34	SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Fluoranthene	0.28	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223B (3-4) | Sampled: 3/8/2018 11:05

Sample ID: 18C0362-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Pyrene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 12:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.8	30-130		3/12/18 12:14
Phenol-d6	52.4	30-130		3/12/18 12:14
Nitrobenzene-d5	58.1	30-130		3/12/18 12:14
2-Fluorobiphenyl	55.4	30-130		3/12/18 12:14
2,4,6-Tribromophenol	52.5	30-130		3/12/18 12:14
p-Terphenyl-d14	63.5	30-130		3/12/18 12:14

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223B (3-4) | Sampled: 3/8/2018 11:05

Sample ID: 18C0362-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1260 [2]	0.28	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		3/11/18 22:26
Decachlorobiphenyl [2]	107	30-150		3/11/18 22:26
Tetrachloro-m-xylene [1]	82.8	30-150		3/11/18 22:26
Tetrachloro-m-xylene [2]	92.8	30-150		3/11/18 22:26

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223B (3-4) | Sampled: 3/8/2018 11:05

Sample ID: 18C0362-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	23	mg/Kg dry	2	MS-12	CTDEP ETPH	3/9/18	3/12/18 16:42	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	68.2	50-150				3/12/18 16:42	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-223B (3-4) | Sampled: 3/8/2018 11:05

Sample ID: 18C0362-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224A (0-0.5) | Sampled: 3/8/2018 11:20

Sample ID: 18C0362-15

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	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1260 [2]	0.15	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 22:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		3/11/18 22:44
Decachlorobiphenyl [2]	97.2	30-150		3/11/18 22:44
Tetrachloro-m-xylene [1]	96.7	30-150		3/11/18 22:44
Tetrachloro-m-xylene [2]	97.9	30-150		3/11/18 22:44

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224A (0-0.5) | Sampled: 3/8/2018 11:20

Sample ID: 18C0362-15

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	84.8		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224B (3-4) | Sampled: 3/8/2018 11:25

Sample ID: 18C0362-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		3/11/18 23:02
Decachlorobiphenyl [2]	94.4	30-150		3/11/18 23:02
Tetrachloro-m-xylene [1]	102	30-150		3/11/18 23:02
Tetrachloro-m-xylene [2]	103	30-150		3/11/18 23:02

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224B (3-4) | Sampled: 3/8/2018 11:25

Sample ID: 18C0362-16

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	88.2		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224C (7-8) | Sampled: 3/8/2018 11:30

Sample ID: 18C0362-17

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	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1254 [1]	0.18	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1260 [1]	0.45	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		3/11/18 23:21
Decachlorobiphenyl [2]	82.5	30-150		3/11/18 23:21
Tetrachloro-m-xylene [1]	86.5	30-150		3/11/18 23:21
Tetrachloro-m-xylene [2]	90.8	30-150		3/11/18 23:21

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-224C (7-8) | Sampled: 3/8/2018 11:30

Sample ID: 18C0362-17

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	86.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:50	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225A (0-0.5) | Sampled: 3/8/2018 11:40

Sample ID: 18C0362-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1260 [2]	0.26	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	3/9/18	3/11/18 23:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		3/11/18 23:39
Decachlorobiphenyl [2]	95.8	30-150		3/11/18 23:39
Tetrachloro-m-xylene [1]	100	30-150		3/11/18 23:39
Tetrachloro-m-xylene [2]	100	30-150		3/11/18 23:39

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225A (0-0.5) | Sampled: 3/8/2018 11:40

Sample ID: 18C0362-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	34	23	mg/Kg dry	2		CTDEP ETPH	3/9/18	3/12/18 16:42	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	94.6	50-150				3/12/18 16:42	

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225A (0-0.5) Sampled: 3/8/2018 11:40

Sample ID: 18C0362-18

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	MS-07A	SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Barium	40	1.9	mg/Kg dry	1	MS-12	SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Beryllium	0.21	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Chromium	14	0.38	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Copper	19	0.38	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Lead	13	0.58	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	3/9/18	3/12/18 9:44	EJB
Nickel	12	0.38	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Selenium	ND	3.8	mg/Kg dry	1	MS-07	SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Silver	ND	0.77	mg/Kg dry	2	DL-04	SW-846 6010C-D	3/9/18	3/12/18 15:52	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Vanadium	28	0.77	mg/Kg dry	1	MS-22	SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW
Zinc	36	0.77	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 12:51	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225A (0-0.5) | Sampled: 3/8/2018 11:40

Sample ID: 18C0362-18

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	84.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:51	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225B (3-4) | Sampled: 3/8/2018 11:45

Sample ID: 18C0362-19

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	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1221 [1]	ND	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1232 [1]	ND	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1242 [1]	ND	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1248 [2]	0.93	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1254 [1]	3.1	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1260 [1]	5.8	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1262 [1]	ND	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG
Aroclor-1268 [1]	ND	0.90	mg/Kg dry	40		SW-846 8082A	3/9/18	3/12/18 12:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		3/12/18 12:43
Decachlorobiphenyl [2]	113	30-150		3/12/18 12:43
Tetrachloro-m-xylene [1]	101	30-150		3/12/18 12:43
Tetrachloro-m-xylene [2]	108	30-150		3/12/18 12:43

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225B (3-4) | Sampled: 3/8/2018 11:45

Sample ID: 18C0362-19

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	88.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:51	MJR

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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: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225C (7-8) | Sampled: 3/8/2018 11:50

Sample ID: 18C0362-20

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	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 0:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		3/12/18 0:15
Decachlorobiphenyl [2]	79.7	30-150		3/12/18 0:15
Tetrachloro-m-xylene [1]	79.3	30-150		3/12/18 0:15
Tetrachloro-m-xylene [2]	80.0	30-150		3/12/18 0:15

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0362

Date Received: 3/8/2018

Field Sample #: B-225C (7-8) | Sampled: 3/8/2018 11:50

Sample ID: 18C0362-20

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	89.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:51	MJR

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0362-14 [B-223B (3-4)]	B198557	30.5	1.00	03/09/18
18C0362-18 [B-225A (0-0.5)]	B198557	30.3	1.00	03/09/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18C0362-01 [B-217A (0-0.5)]	B198492	03/08/18
18C0362-02 [B-217B (7-8)]	B198492	03/08/18
18C0362-03 [B-218A (0-0.5)]	B198492	03/08/18
18C0362-04 [B-218B (3-4)]	B198492	03/08/18
18C0362-05 [B-219A (0-0.5)]	B198492	03/08/18
18C0362-06 [B-219B (3-4)]	B198492	03/08/18
18C0362-07 [B-220A (0-0.5)]	B198492	03/08/18
18C0362-08 [B-220B (3-4)]	B198492	03/08/18
18C0362-09 [B-221A (0-1)]	B198492	03/08/18
18C0362-10 [B-221B (3-4)]	B198492	03/08/18
18C0362-11 [B-222A (0-0.5)]	B198492	03/08/18
18C0362-12 [B-222B (3-4)]	B198492	03/08/18
18C0362-13 [B-223A (0-0.5)]	B198492	03/08/18
18C0362-14 [B-223B (3-4)]	B198492	03/08/18
18C0362-15 [B-224A (0-0.5)]	B198492	03/08/18
18C0362-16 [B-224B (3-4)]	B198492	03/08/18
18C0362-17 [B-224C (7-8)]	B198492	03/08/18
18C0362-18 [B-225A (0-0.5)]	B198492	03/08/18
18C0362-19 [B-225B (3-4)]	B198492	03/08/18
18C0362-20 [B-225C (7-8)]	B198492	03/08/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0362-09 [B-221A (0-1)]	B198516	1.52	50.0	03/09/18
18C0362-18 [B-225A (0-0.5)]	B198516	1.54	50.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0362-09 [B-221A (0-1)]	B198517	0.593	50.0	03/09/18
18C0362-18 [B-225A (0-0.5)]	B198517	0.609	50.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0362-01 [B-217A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-02 [B-217B (7-8)]	B198501	10.0	10.0	03/09/18
18C0362-03 [B-218A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-04 [B-218B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-05 [B-219A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-06 [B-219B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-07 [B-220A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-08 [B-220B (3-4)]	B198501	10.0	10.0	03/09/18

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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
18C0362-09 [B-221A (0-1)]	B198501	10.0	10.0	03/09/18
18C0362-10 [B-221B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-11 [B-222A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-12 [B-222B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-13 [B-223A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-14 [B-223B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-15 [B-224A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-16 [B-224B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-17 [B-224C (7-8)]	B198501	10.0	10.0	03/09/18
18C0362-18 [B-225A (0-0.5)]	B198501	10.0	10.0	03/09/18
18C0362-19 [B-225B (3-4)]	B198501	10.0	10.0	03/09/18
18C0362-20 [B-225C (7-8)]	B198501	10.0	10.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0362-09 [B-221A (0-1)]	B198562	30.0	1.00	03/09/18
18C0362-14 [B-223B (3-4)]	B198562	30.1	1.00	03/09/18

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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 B198562 - SW-846 3546										
Blank (B198562-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							L-04, V-34
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							
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 B198562 - SW-846 3546												
Blank (B198562-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18								
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									
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	*3.60*		mg/Kg wet	6.67		54.0		30-130				
Surrogate: Phenol-d6	*3.77*		mg/Kg wet	6.67		56.5		30-130				
Surrogate: Nitrobenzene-d5	*2.06*		mg/Kg wet	3.33		61.9		30-130				
Surrogate: 2-Fluorobiphenyl	*1.96*		mg/Kg wet	3.33		58.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.97*		mg/Kg wet	6.67		74.5		30-130				
Surrogate: p-Terphenyl-d14	*3.11*		mg/Kg wet	3.33		93.3		30-130				
LCS (B198562-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18								
Acenaphthene	0.850	0.17	mg/Kg wet	1.67		51.0		40-140				
Acenaphthylene	0.828	0.17	mg/Kg wet	1.67		49.7		40-140				
Aniline	0.536	0.34	mg/Kg wet	1.67		**32.1**	*	40-140			L-04, V-34	†
Anthracene	0.902	0.17	mg/Kg wet	1.67		54.1		40-140				
Benzo(a)anthracene	0.923	0.17	mg/Kg wet	1.67		55.4		40-140				
Benzo(a)pyrene	0.893	0.17	mg/Kg wet	1.67		53.6		40-140				
Benzo(b)fluoranthene	0.847	0.17	mg/Kg wet	1.67		50.8		40-140				
Benzo(g,h,i)perylene	0.889	0.17	mg/Kg wet	1.67		53.3		40-140				
Benzo(k)fluoranthene	0.917	0.17	mg/Kg wet	1.67		55.0		40-140				
Bis(2-chloroethoxy)methane	0.986	0.34	mg/Kg wet	1.67		59.2		40-140				
Bis(2-chloroethyl)ether	0.900	0.34	mg/Kg wet	1.67		54.0		40-140				
Bis(2-chloroisopropyl)ether	1.02	0.34	mg/Kg wet	1.67		61.2		40-140				
Bis(2-Ethylhexyl)phthalate	1.05	0.34	mg/Kg wet	1.67		63.1		40-140				
4-Bromophenylphenylether	0.886	0.34	mg/Kg wet	1.67		53.2		40-140				
Butylbenzylphthalate	1.06	0.34	mg/Kg wet	1.67		63.3		40-140				
Carbazole	0.907	0.17	mg/Kg wet	1.67		54.4		40-140				
4-Chloroaniline	0.590	0.66	mg/Kg wet	1.67		**35.4**	*	40-140			L-04, V-34	†
4-Chloro-3-methylphenol	0.903	0.66	mg/Kg wet	1.67		54.2		30-130				
2-Chloronaphthalene	0.746	0.34	mg/Kg wet	1.67		44.8		40-140				
2-Chlorophenol	0.777	0.34	mg/Kg wet	1.67		46.6		30-130				
4-Chlorophenylphenylether	0.864	0.34	mg/Kg wet	1.67		51.9		40-140				
Chrysene	0.915	0.17	mg/Kg wet	1.67		54.9		40-140				
Dibenz(a,h)anthracene	0.776	0.17	mg/Kg wet	1.67		46.5		40-140				
Dibenzofuran	0.891	0.34	mg/Kg wet	1.67		53.5		40-140				
Di-n-butylphthalate	0.947	0.34	mg/Kg wet	1.67		56.8		40-140				
3,3-Dichlorobenzidine	0.758	0.17	mg/Kg wet	1.67		45.5		40-140				†
2,4-Dichlorophenol	0.827	0.34	mg/Kg wet	1.67		49.6		30-130				
Diethylphthalate	0.909	0.34	mg/Kg wet	1.67		54.5		40-140				
2,4-Dimethylphenol	0.726	0.34	mg/Kg wet	1.67		43.6		30-130				
Dimethylphthalate	0.913	0.34	mg/Kg wet	1.67		54.8		40-140				
4,6-Dinitro-2-methylphenol	0.869	0.34	mg/Kg wet	1.67		52.2		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B198562 - SW-846 3546											
LCS (B198562-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18							
2,4-Dinitrophenol	0.713	0.66	mg/Kg wet	1.67		42.8	30-130				
2,4-Dinitrotoluene	0.911	0.34	mg/Kg wet	1.67		54.7	40-140				
2,6-Dinitrotoluene	0.938	0.34	mg/Kg wet	1.67		56.3	40-140				
Di-n-octylphthalate	0.901	0.34	mg/Kg wet	1.67		54.1	40-140				
Fluoranthene	0.878	0.17	mg/Kg wet	1.67		52.7	40-140				
Fluorene	0.872	0.17	mg/Kg wet	1.67		52.3	40-140				
Hexachlorobenzene	0.832	0.34	mg/Kg wet	1.67		49.9	40-140				
Hexachlorobutadiene	0.737	0.34	mg/Kg wet	1.67		44.2	40-140				
Hexachlorocyclopentadiene	0.612	0.34	mg/Kg wet	1.67		36.7	30-140				
Hexachloroethane	0.771	0.34	mg/Kg wet	1.67		46.2	40-140				
Indeno(1,2,3-cd)pyrene	0.790	0.17	mg/Kg wet	1.67		47.4	40-140				
Isophorone	0.937	0.34	mg/Kg wet	1.67		56.2	40-140				
2-Methylnaphthalene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140				
2-Methylphenol	0.655	0.34	mg/Kg wet	1.67		39.3	30-130				
3/4-Methylphenol	0.874	0.34	mg/Kg wet	1.67		52.4	30-130				
Naphthalene	0.800	0.17	mg/Kg wet	1.67		48.0	40-140				
2-Nitroaniline	1.03	0.34	mg/Kg wet	1.67		61.8	40-140				
3-Nitroaniline	0.781	0.34	mg/Kg wet	1.67		46.8	40-140				†
4-Nitroaniline	0.871	0.34	mg/Kg wet	1.67		52.3	40-140				
Nitrobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140				
2-Nitrophenol	0.840	0.34	mg/Kg wet	1.67		50.4	30-130				
4-Nitrophenol	0.879	0.66	mg/Kg wet	1.67		52.8	10-130				
N-Nitrosodiphenylamine	1.11	0.34	mg/Kg wet	1.67		66.4	40-140				
N-Nitrosodi-n-propylamine	0.875	0.34	mg/Kg wet	1.67		52.5	40-140				
Pentachloronitrobenzene	0.899	0.34	mg/Kg wet	1.67		54.0	40-140				
Pentachlorophenol	0.708	0.34	mg/Kg wet	1.67		42.5	30-130				
Phenanthrene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140				
Phenol	0.815	0.34	mg/Kg wet	1.67		48.9	20-130				
Pyrene	0.945	0.17	mg/Kg wet	1.67		56.7	40-140				
Pyridine	0.611	0.34	mg/Kg wet	1.67		36.7	10-140				†
1,2,4,5-Tetrachlorobenzene	0.825	0.34	mg/Kg wet	1.67		49.5	40-140				
1,2,4-Trichlorobenzene	0.743	0.34	mg/Kg wet	1.67		44.6	40-140				
2,4,5-Trichlorophenol	0.790	0.34	mg/Kg wet	1.67		47.4	30-130				
2,4,6-Trichlorophenol	0.840	0.34	mg/Kg wet	1.67		50.4	30-130				
Surrogate: 2-Fluorophenol	*3.38*		mg/Kg wet	6.67		50.6	30-130				
Surrogate: Phenol-d6	*3.54*		mg/Kg wet	6.67		53.1	30-130				
Surrogate: Nitrobenzene-d5	*1.97*		mg/Kg wet	3.33		59.2	30-130				
Surrogate: 2-Fluorobiphenyl	*1.87*		mg/Kg wet	3.33		56.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*3.74*		mg/Kg wet	6.67		56.1	30-130				
Surrogate: p-Terphenyl-d14	*2.19*		mg/Kg wet	3.33		65.7	30-130				
LCS Dup (B198562-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18							
Acenaphthene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140	7.83	30		
Acenaphthylene	0.905	0.17	mg/Kg wet	1.67		54.3	40-140	8.93	30		
Aniline	0.555	0.34	mg/Kg wet	1.67		**33.3**	* 40-140	3.55	50	L-04, V-34	† ‡
Anthracene	0.937	0.17	mg/Kg wet	1.67		56.2	40-140	3.81	30		
Benzo(a)anthracene	0.958	0.17	mg/Kg wet	1.67		57.5	40-140	3.72	30		
Benzo(a)pyrene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140	5.45	30		
Benzo(b)fluoranthene	0.911	0.17	mg/Kg wet	1.67		54.7	40-140	7.32	30		
Benzo(g,h,i)perylene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140	5.19	30		
Benzo(k)fluoranthene	0.956	0.17	mg/Kg wet	1.67		57.4	40-140	4.16	30		
Bis(2-chloroethoxy)methane	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	4.14	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 B198562 - SW-846 3546												
LCS Dup (B198562-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18								
Bis(2-chloroethyl)ether	0.924	0.34	mg/Kg wet	1.67		55.5		40-140	2.67	30		
Bis(2-chloroisopropyl)ether	1.05	0.34	mg/Kg wet	1.67		63.2		40-140	3.28	30		
Bis(2-Ethylhexyl)phthalate	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	0.828	30		
4-Bromophenylphenylether	0.924	0.34	mg/Kg wet	1.67		55.4		40-140	4.16	30		
Butylbenzylphthalate	1.06	0.34	mg/Kg wet	1.67		63.6		40-140	0.378	30		
Carbazole	0.953	0.17	mg/Kg wet	1.67		57.2		40-140	4.98	30		
4-Chloroaniline	0.567	0.66	mg/Kg wet	1.67		**34.0**	*	40-140	3.98	30	L-04, V-34	†
4-Chloro-3-methylphenol	0.930	0.66	mg/Kg wet	1.67		55.8		30-130	2.91	30		
2-Chloronaphthalene	0.823	0.34	mg/Kg wet	1.67		49.4		40-140	9.86	30		
2-Chlorophenol	0.798	0.34	mg/Kg wet	1.67		47.9		30-130	2.67	30		
4-Chlorophenylphenylether	0.918	0.34	mg/Kg wet	1.67		55.1		40-140	6.06	30		
Chrysene	0.965	0.17	mg/Kg wet	1.67		57.9		40-140	5.35	30		
Dibenz(a,h)anthracene	0.874	0.17	mg/Kg wet	1.67		52.4		40-140	11.9	30		
Dibenzofuran	0.950	0.34	mg/Kg wet	1.67		57.0		40-140	6.34	30		
Di-n-butylphthalate	0.968	0.34	mg/Kg wet	1.67		58.1		40-140	2.19	30		
3,3-Dichlorobenzidine	0.747	0.17	mg/Kg wet	1.67		44.8		40-140	1.42	30		† ‡
2,4-Dichlorophenol	0.868	0.34	mg/Kg wet	1.67		52.1		30-130	4.92	30		
Diethylphthalate	0.953	0.34	mg/Kg wet	1.67		57.2		40-140	4.76	30		
2,4-Dimethylphenol	0.769	0.34	mg/Kg wet	1.67		46.2		30-130	5.80	30		
Dimethylphthalate	0.947	0.34	mg/Kg wet	1.67		56.8		40-140	3.73	50		
4,6-Dinitro-2-methylphenol	0.893	0.34	mg/Kg wet	1.67		53.6		30-130	2.65	50		
2,4-Dinitrophenol	0.744	0.66	mg/Kg wet	1.67		44.7		30-130	4.30	50		
2,4-Dinitrotoluene	0.976	0.34	mg/Kg wet	1.67		58.5		40-140	6.82	30		
2,6-Dinitrotoluene	1.02	0.34	mg/Kg wet	1.67		61.4		40-140	8.73	30		
Di-n-octylphthalate	0.924	0.34	mg/Kg wet	1.67		55.5		40-140	2.56	30		
Fluoranthene	0.927	0.17	mg/Kg wet	1.67		55.6		40-140	5.43	30		
Fluorene	0.939	0.17	mg/Kg wet	1.67		56.3		40-140	7.33	30		
Hexachlorobenzene	0.861	0.34	mg/Kg wet	1.67		51.6		40-140	3.35	30		
Hexachlorobutadiene	0.785	0.34	mg/Kg wet	1.67		47.1		40-140	6.35	30		
Hexachlorocyclopentadiene	0.676	0.34	mg/Kg wet	1.67		40.6		30-140	9.93	50		
Hexachloroethane	0.817	0.34	mg/Kg wet	1.67		49.0		40-140	5.88	50		
Indeno(1,2,3-cd)pyrene	0.826	0.17	mg/Kg wet	1.67		49.6		40-140	4.46	50		
Isophorone	0.991	0.34	mg/Kg wet	1.67		59.5		40-140	5.64	30		
2-Methylnaphthalene	0.948	0.17	mg/Kg wet	1.67		56.9		40-140	4.94	30		
2-Methylphenol	0.680	0.34	mg/Kg wet	1.67		40.8		30-130	3.79	30		
3/4-Methylphenol	0.879	0.34	mg/Kg wet	1.67		52.7		30-130	0.609	30		
Naphthalene	0.844	0.17	mg/Kg wet	1.67		50.6		40-140	5.35	30		
2-Nitroaniline	1.12	0.34	mg/Kg wet	1.67		67.2		40-140	8.34	30		
3-Nitroaniline	0.796	0.34	mg/Kg wet	1.67		47.7		40-140	1.90	30		†
4-Nitroaniline	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	6.80	30		
Nitrobenzene	0.947	0.34	mg/Kg wet	1.67		56.8		40-140	7.03	30		
2-Nitrophenol	0.882	0.34	mg/Kg wet	1.67		52.9		30-130	4.96	30		
4-Nitrophenol	0.983	0.66	mg/Kg wet	1.67		59.0		10-130	11.2	50		‡
N-Nitrosodiphenylamine	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	3.93	30		
N-Nitrosodi-n-propylamine	0.888	0.34	mg/Kg wet	1.67		53.3		40-140	1.55	30		
Pentachloronitrobenzene	0.954	0.34	mg/Kg wet	1.67		57.3		40-140	5.93	30		
Pentachlorophenol	0.716	0.34	mg/Kg wet	1.67		43.0		30-130	1.17	50		
Phenanthrene	0.957	0.17	mg/Kg wet	1.67		57.4		40-140	4.67	30		
Phenol	0.855	0.34	mg/Kg wet	1.67		51.3		20-130	4.87	30		
Pyrene	0.986	0.17	mg/Kg wet	1.67		59.2		40-140	4.28	30		
Pyridine	0.632	0.34	mg/Kg wet	1.67		37.9		10-140	3.27	50		†
1,2,4,5-Tetrachlorobenzene	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	8.84	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 B198562 - SW-846 3546											
LCS Dup (B198562-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18							
1,2,4-Trichlorobenzene	0.804	0.34	mg/Kg wet	1.67		48.2		40-140	7.93	30	
2,4,5-Trichlorophenol	0.896	0.34	mg/Kg wet	1.67		53.8		30-130	12.6	30	
2,4,6-Trichlorophenol	0.902	0.34	mg/Kg wet	1.67		54.1		30-130	7.08	50	
Surrogate: 2-Fluorophenol	*3.51*		mg/Kg wet	6.67		52.6		30-130			
Surrogate: Phenol-d6	*3.66*		mg/Kg wet	6.67		54.9		30-130			
Surrogate: Nitrobenzene-d5	*2.06*		mg/Kg wet	3.33		61.7		30-130			
Surrogate: 2-Fluorobiphenyl	*1.99*		mg/Kg wet	3.33		59.8		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.95*		mg/Kg wet	6.67		59.2		30-130			
Surrogate: p-Terphenyl-d14	*2.21*		mg/Kg wet	3.33		66.2		30-130			
Matrix Spike (B198562-MS1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
Acenaphthene	0.999	0.20	mg/Kg dry	1.92	ND	52.1		40-140			
Acenaphthylene	0.959	0.20	mg/Kg dry	1.92	ND	50.1		40-140			
Aniline	0.264	0.39	mg/Kg dry	1.92	ND	**13.8**	*	40-140			V-34, MS-09
Anthracene	1.06	0.20	mg/Kg dry	1.92	ND	55.5		40-140			
Benzo(a)anthracene	1.22	0.20	mg/Kg dry	1.92	0.121	57.2		40-140			
Benzo(a)pyrene	1.21	0.20	mg/Kg dry	1.92	0.129	56.5		40-140			
Benzo(b)fluoranthene	1.15	0.20	mg/Kg dry	1.92	0.169	51.1		40-140			
Benzo(g,h,i)perylene	1.02	0.20	mg/Kg dry	1.92	0.0908	48.7		40-140			
Benzo(k)fluoranthene	1.10	0.20	mg/Kg dry	1.92	ND	57.4		40-140			
Bis(2-chloroethoxy)methane	1.15	0.39	mg/Kg dry	1.92	ND	60.2		40-140			
Bis(2-chloroethyl)ether	1.04	0.39	mg/Kg dry	1.92	ND	54.5		40-140			
Bis(2-chloroisopropyl)ether	1.20	0.39	mg/Kg dry	1.92	ND	62.4		40-140			
Bis(2-Ethylhexyl)phthalate	1.33	0.39	mg/Kg dry	1.92	ND	69.6		40-140			
4-Bromophenylphenylether	0.997	0.39	mg/Kg dry	1.92	ND	52.0		40-140			
Butylbenzylphthalate	1.27	0.39	mg/Kg dry	1.92	ND	66.3		40-140			
Carbazole	1.06	0.20	mg/Kg dry	1.92	ND	55.4		40-140			
4-Chloroaniline	0.453	0.76	mg/Kg dry	1.92	ND	**23.6**	*	40-140			MS-09, V-34
4-Chloro-3-methylphenol	1.03	0.76	mg/Kg dry	1.92	ND	54.0		30-130			
2-Chloronaphthalene	0.920	0.39	mg/Kg dry	1.92	ND	48.0		40-140			
2-Chlorophenol	0.953	0.39	mg/Kg dry	1.92	ND	49.7		30-130			
4-Chlorophenylphenylether	0.983	0.39	mg/Kg dry	1.92	ND	51.3		40-140			
Chrysene	1.18	0.20	mg/Kg dry	1.92	0.111	56.0		40-140			
Dibenz(a,h)anthracene	0.920	0.20	mg/Kg dry	1.92	ND	48.0		40-140			
Dibenzofuran	1.02	0.39	mg/Kg dry	1.92	ND	53.2		40-140			
Di-n-butylphthalate	1.10	0.39	mg/Kg dry	1.92	ND	57.6		40-140			
3,3-Dichlorobenzidine	0.538	0.20	mg/Kg dry	1.92	ND	**28.1**	*	40-140			MS-09
2,4-Dichlorophenol	0.985	0.39	mg/Kg dry	1.92	ND	51.4		30-130			
Diethylphthalate	1.05	0.39	mg/Kg dry	1.92	ND	54.6		40-140			
2,4-Dimethylphenol	0.784	0.39	mg/Kg dry	1.92	ND	40.9		30-130			
Dimethylphthalate	1.02	0.39	mg/Kg dry	1.92	ND	53.4		40-140			
4,6-Dinitro-2-methylphenol	0.727	0.39	mg/Kg dry	1.92	ND	38.0		30-130			
2,4-Dinitrophenol	0.686	0.76	mg/Kg dry	1.92	ND	35.8		30-130			
2,4-Dinitrotoluene	1.03	0.39	mg/Kg dry	1.92	ND	54.0		40-140			
2,6-Dinitrotoluene	1.09	0.39	mg/Kg dry	1.92	ND	56.8		40-140			
Di-n-octylphthalate	1.27	0.39	mg/Kg dry	1.92	ND	66.5		40-140			
Fluoranthene	1.42	0.20	mg/Kg dry	1.92	0.242	61.5		40-140			
Fluorene	1.01	0.20	mg/Kg dry	1.92	ND	52.5		40-140			
Hexachlorobenzene	0.911	0.39	mg/Kg dry	1.92	ND	47.6		40-140			
Hexachlorobutadiene	0.877	0.39	mg/Kg dry	1.92	ND	45.8		40-140			
Hexachlorocyclopentadiene	0.424	0.39	mg/Kg dry	1.92	ND	**22.1**	*	40-140			MS-09
Hexachloroethane	0.830	0.39	mg/Kg dry	1.92	ND	43.3		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 B198562 - SW-846 3546											
Matrix Spike (B198562-MS1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
Indeno(1,2,3-cd)pyrene	1.00	0.20	mg/Kg dry	1.92	ND	52.3		40-140			
Isophorone	1.10	0.39	mg/Kg dry	1.92	ND	57.2		40-140			
2-Methylnaphthalene	1.08	0.20	mg/Kg dry	1.92	ND	56.4		40-140			
2-Methylphenol	0.776	0.39	mg/Kg dry	1.92	ND	40.5		30-130			
3/4-Methylphenol	1.01	0.39	mg/Kg dry	1.92	ND	52.7		30-130			
Naphthalene	0.965	0.20	mg/Kg dry	1.92	ND	50.4		40-140			
2-Nitroaniline	1.25	0.39	mg/Kg dry	1.92	ND	65.0		40-140			
3-Nitroaniline	0.849	0.39	mg/Kg dry	1.92	ND	44.3		40-140			
4-Nitroaniline	0.969	0.39	mg/Kg dry	1.92	ND	50.6		40-140			
Nitrobenzene	1.06	0.39	mg/Kg dry	1.92	ND	55.1		40-140			
2-Nitrophenol	0.985	0.39	mg/Kg dry	1.92	ND	51.4		30-130			
4-Nitrophenol	1.07	0.76	mg/Kg dry	1.92	ND	55.8		30-130			
N-Nitrosodiphenylamine	1.22	0.39	mg/Kg dry	1.92	ND	63.4		40-140			
N-Nitrosodi-n-propylamine	1.04	0.39	mg/Kg dry	1.92	ND	54.3		40-140			
Pentachloronitrobenzene	1.02	0.39	mg/Kg dry	1.92	ND	53.3		40-140			
Pentachlorophenol	0.830	0.39	mg/Kg dry	1.92	ND	43.3		30-130			
Phenanthrene	1.22	0.20	mg/Kg dry	1.92	0.107	58.0		40-140			
Phenol	1.02	0.39	mg/Kg dry	1.92	ND	53.2		30-130			
Pyrene	1.51	0.20	mg/Kg dry	1.92	0.240	66.3		40-140			
Pyridine	0.507	0.39	mg/Kg dry	1.92	ND	**26.5**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	0.979	0.39	mg/Kg dry	1.92	ND	51.1		40-140			
1,2,4-Trichlorobenzene	0.901	0.39	mg/Kg dry	1.92	ND	47.0		40-140			
2,4,5-Trichlorophenol	0.969	0.39	mg/Kg dry	1.92	ND	50.6		30-130			
2,4,6-Trichlorophenol	0.979	0.39	mg/Kg dry	1.92	ND	51.1		30-130			
Surrogate: 2-Fluorophenol	*3.97*		mg/Kg dry	7.66		51.8		30-130			
Surrogate: Phenol-d6	*4.30*		mg/Kg dry	7.66		56.1		30-130			
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg dry	3.83		60.0		30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg dry	3.83		56.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.09*		mg/Kg dry	7.66		53.4		30-130			
Surrogate: p-Terphenyl-d14	*2.54*		mg/Kg dry	3.83		66.4		30-130			
Matrix Spike Dup (B198562-MSD1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
Acenaphthene	1.05	0.20	mg/Kg dry	1.92	ND	54.7		40-140	4.79	30	
Acenaphthylene	1.01	0.20	mg/Kg dry	1.92	ND	52.9		40-140	5.55	30	
Aniline	0.290	0.39	mg/Kg dry	1.92	ND	**15.2**	*	40-140	9.39	30	MS-09, V-34
Anthracene	1.15	0.20	mg/Kg dry	1.92	ND	59.8		40-140	7.49	30	
Benzo(a)anthracene	1.40	0.20	mg/Kg dry	1.92	0.121	66.9		40-140	14.2	30	
Benzo(a)pyrene	1.39	0.20	mg/Kg dry	1.92	0.129	65.7		40-140	13.6	30	
Benzo(b)fluoranthene	1.34	0.20	mg/Kg dry	1.92	0.169	61.1		40-140	15.4	30	
Benzo(g,h,i)perylene	1.11	0.20	mg/Kg dry	1.92	0.0908	53.2		40-140	8.19	30	
Benzo(k)fluoranthene	1.21	0.20	mg/Kg dry	1.92	ND	63.2		40-140	9.69	30	
Bis(2-chloroethoxy)methane	1.21	0.39	mg/Kg dry	1.92	ND	63.4		40-140	5.21	30	
Bis(2-chloroethyl)ether	1.12	0.39	mg/Kg dry	1.92	ND	58.7		40-140	7.39	30	
Bis(2-chloroisopropyl)ether	1.24	0.39	mg/Kg dry	1.92	ND	64.9		40-140	3.83	30	
Bis(2-Ethylhexyl)phthalate	1.39	0.39	mg/Kg dry	1.92	ND	72.6		40-140	4.16	30	
4-Bromophenylphenylether	1.03	0.39	mg/Kg dry	1.92	ND	53.9		40-140	3.51	30	
Butylbenzylphthalate	1.36	0.39	mg/Kg dry	1.92	ND	71.0		40-140	6.87	30	
Carbazole	1.11	0.20	mg/Kg dry	1.92	ND	58.0		40-140	4.52	30	
4-Chloroaniline	0.494	0.76	mg/Kg dry	1.92	ND	**25.8**	*	40-140	8.74	30	MS-09, V-34
4-Chloro-3-methylphenol	1.06	0.76	mg/Kg dry	1.92	ND	55.5		30-130	2.81	30	
2-Chloronaphthalene	0.964	0.39	mg/Kg dry	1.92	ND	50.3		40-140	4.64	30	
2-Chlorophenol	0.979	0.39	mg/Kg dry	1.92	ND	51.1		30-130	2.70	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 B198562 - SW-846 3546											
Matrix Spike Dup (B198562-MSD1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
4-Chlorophenylphenylether	1.04	0.39	mg/Kg dry	1.92	ND	54.1		40-140	5.28	30	
Chrysene	1.34	0.20	mg/Kg dry	1.92	0.111	64.0		40-140	12.2	30	
Dibenz(a,h)anthracene	0.932	0.20	mg/Kg dry	1.92	ND	48.6		40-140	1.24	30	
Dibenzofuran	1.08	0.39	mg/Kg dry	1.92	ND	56.1		40-140	5.27	30	
Di-n-butylphthalate	1.15	0.39	mg/Kg dry	1.92	ND	59.8		40-140	3.82	30	
3,3-Dichlorobenzidine	0.658	0.20	mg/Kg dry	1.92	ND	**34.4**	*	40-140	20.0	30	MS-09
2,4-Dichlorophenol	1.03	0.39	mg/Kg dry	1.92	ND	53.9		30-130	4.71	30	
Diethylphthalate	1.10	0.39	mg/Kg dry	1.92	ND	57.5		40-140	5.21	30	
2,4-Dimethylphenol	0.777	0.39	mg/Kg dry	1.92	ND	40.5		30-130	0.884	30	
Dimethylphthalate	1.08	0.39	mg/Kg dry	1.92	ND	56.6		40-140	5.82	30	
4,6-Dinitro-2-methylphenol	0.653	0.39	mg/Kg dry	1.92	ND	34.1		30-130	10.7	30	
2,4-Dinitrophenol	0.587	0.76	mg/Kg dry	1.92	ND	30.6		30-130	15.6	30	
2,4-Dinitrotoluene	1.07	0.39	mg/Kg dry	1.92	ND	56.0		40-140	3.74	30	
2,6-Dinitrotoluene	1.13	0.39	mg/Kg dry	1.92	ND	58.8		40-140	3.56	30	
Di-n-octylphthalate	1.29	0.39	mg/Kg dry	1.92	ND	67.4		40-140	1.34	30	
Fluoranthene	1.76	0.20	mg/Kg dry	1.92	0.242	79.1		40-140	21.2	30	
Fluorene	1.07	0.20	mg/Kg dry	1.92	ND	55.6		40-140	5.81	30	
Hexachlorobenzene	0.963	0.39	mg/Kg dry	1.92	ND	50.3		40-140	5.52	30	
Hexachlorobutadiene	0.940	0.39	mg/Kg dry	1.92	ND	49.1		40-140	6.96	30	
Hexachlorocyclopentadiene	0.384	0.39	mg/Kg dry	1.92	ND	**20.0**	*	40-140	9.97	30	MS-09
Hexachloroethane	0.862	0.39	mg/Kg dry	1.92	ND	45.0		40-140	3.76	30	
Indeno(1,2,3-cd)pyrene	1.14	0.20	mg/Kg dry	1.92	ND	59.3		40-140	12.5	30	
Isophorone	1.15	0.39	mg/Kg dry	1.92	ND	60.0		40-140	4.81	30	
2-Methylnaphthalene	1.13	0.20	mg/Kg dry	1.92	ND	58.8		40-140	4.24	30	
2-Methylphenol	0.779	0.39	mg/Kg dry	1.92	ND	40.6		30-130	0.296	30	
3/4-Methylphenol	1.04	0.39	mg/Kg dry	1.92	ND	54.1		30-130	2.58	30	
Naphthalene	1.01	0.20	mg/Kg dry	1.92	ND	52.5		40-140	4.12	30	
2-Nitroaniline	1.33	0.39	mg/Kg dry	1.92	ND	69.7		40-140	6.92	30	
3-Nitroaniline	0.921	0.39	mg/Kg dry	1.92	ND	48.1		40-140	8.10	30	
4-Nitroaniline	1.03	0.39	mg/Kg dry	1.92	ND	53.7		40-140	5.98	30	
Nitrobenzene	1.11	0.39	mg/Kg dry	1.92	ND	57.9		40-140	5.06	30	
2-Nitrophenol	1.05	0.39	mg/Kg dry	1.92	ND	54.9		30-130	6.55	30	
4-Nitrophenol	1.09	0.76	mg/Kg dry	1.92	ND	57.0		30-130	2.16	30	
N-Nitrosodiphenylamine	1.25	0.39	mg/Kg dry	1.92	ND	65.4		40-140	3.07	30	
N-Nitrosodi-n-propylamine	1.09	0.39	mg/Kg dry	1.92	ND	56.8		40-140	4.53	30	
Pentachloronitrobenzene	1.05	0.39	mg/Kg dry	1.92	ND	54.8		40-140	2.77	30	
Pentachlorophenol	0.725	0.39	mg/Kg dry	1.92	ND	37.8		30-130	13.6	30	
Phenanthrene	1.42	0.20	mg/Kg dry	1.92	0.107	68.7		40-140	15.6	30	
Phenol	1.05	0.39	mg/Kg dry	1.92	ND	54.6		30-130	2.60	30	
Pyrene	1.89	0.20	mg/Kg dry	1.92	0.240	86.1		40-140	22.4	30	
Pyridine	0.602	0.39	mg/Kg dry	1.92	ND	**31.4**	*	40-140	17.1	30	MS-09
1,2,4,5-Tetrachlorobenzene	1.04	0.39	mg/Kg dry	1.92	ND	54.2		40-140	5.96	30	
1,2,4-Trichlorobenzene	0.966	0.39	mg/Kg dry	1.92	ND	50.4		40-140	6.98	30	
2,4,5-Trichlorophenol	0.989	0.39	mg/Kg dry	1.92	ND	51.6		30-130	1.96	30	
2,4,6-Trichlorophenol	1.02	0.39	mg/Kg dry	1.92	ND	53.2		30-130	3.95	30	
Surrogate: 2-Fluorophenol	*4.07*		mg/Kg dry	7.66		53.1		30-130			
Surrogate: Phenol-d6	*4.44*		mg/Kg dry	7.66		57.9		30-130			
Surrogate: Nitrobenzene-d5	*2.41*		mg/Kg dry	3.83		62.8		30-130			
Surrogate: 2-Fluorobiphenyl	*2.27*		mg/Kg dry	3.83		59.2		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.14*		mg/Kg dry	7.66		54.1		30-130			
Surrogate: p-Terphenyl-d14	*2.70*		mg/Kg dry	3.83		70.5		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 B198501 - SW-846 3540C										
Blank (B198501-BLK1)				Prepared: 03/09/18 Analyzed: 03/11/18						
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	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.2	30-150			
LCS (B198501-BS1)				Prepared: 03/09/18 Analyzed: 03/11/18						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.2	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.6	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg wet	0.200		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.3	30-150			
LCS Dup (B198501-BSD1)				Prepared: 03/09/18 Analyzed: 03/11/18						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.6	40-140	1.99	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.5	40-140	3.86	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.1	40-140	4.48	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140	4.17	30	
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198501 - SW-846 3540C										
Matrix Spike (B198501-MS1)	**Source: 18C0362-05**			Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.26	0.093	mg/Kg dry	0.233	ND	113	40-140			
Aroclor-1016 [2C]	0.26	0.093	mg/Kg dry	0.233	ND	111	40-140			
Aroclor-1260	0.27	0.093	mg/Kg dry	0.233	ND	118	40-140			
Aroclor-1260 [2C]	0.27	0.093	mg/Kg dry	0.233	ND	115	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.233		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg dry	0.233		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.228*		mg/Kg dry	0.233		98.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.230*		mg/Kg dry	0.233		98.7	30-150			
Matrix Spike Dup (B198501-MSD1)	**Source: 18C0362-05**			Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.25	0.093	mg/Kg dry	0.233	ND	108	40-140	4.03	50	
Aroclor-1016 [2C]	0.25	0.093	mg/Kg dry	0.233	ND	109	40-140	2.03	50	
Aroclor-1260	0.26	0.093	mg/Kg dry	0.233	ND	111	40-140	5.62	50	
Aroclor-1260 [2C]	0.25	0.093	mg/Kg dry	0.233	ND	110	40-140	4.38	50	
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg dry	0.233		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg dry	0.233		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.221*		mg/Kg dry	0.233		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.222*		mg/Kg dry	0.233		95.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B198557 - SW-846 3546												
Blank (B198557-BLK1)				Prepared: 03/09/18 Analyzed: 03/11/18								
CT ETPH	ND	10	mg/Kg wet									
Surrogate: o-Terphenyl	*3.44*		mg/Kg wet	3.33		103		50-150				
LCS (B198557-BS1)				Prepared: 03/09/18 Analyzed: 03/11/18								
CT ETPH	26.4	10	mg/Kg wet	33.3		79.2		60-120				
Surrogate: o-Terphenyl	*3.47*		mg/Kg wet	3.33		104		50-150				
LCS Dup (B198557-BSD1)				Prepared: 03/09/18 Analyzed: 03/11/18								
CT ETPH	25.4	10	mg/Kg wet	33.3		76.3		60-120	3.76		30	
Surrogate: o-Terphenyl	*3.33*		mg/Kg wet	3.33		100		50-150				
Matrix Spike (B198557-MS1)	**Source: 18C0362-14**			Prepared: 03/09/18 Analyzed: 03/11/18								
CT ETPH	130	120	mg/Kg dry	38.7	66.1	**164**	*	50-150				MS-12
Surrogate: o-Terphenyl	*2.54*		mg/Kg dry	3.87		65.7		50-150				
Matrix Spike Dup (B198557-MSD1)	**Source: 18C0362-14**			Prepared: 03/09/18 Analyzed: 03/11/18								
CT ETPH	267	120	mg/Kg dry	38.6	66.1	**521**	*	50-150	**69.3**	*	30	MS-12
Surrogate: o-Terphenyl	*2.82*		mg/Kg dry	3.86		73.0		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 B198516 - SW-846 3050B										
Blank (B198516-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
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 (B198516-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Antimony	62.9	4.7	mg/Kg wet	65.1		96.6	3.8-212			
Arsenic	145	4.7	mg/Kg wet	147		98.6	83-117			
Barium	330	4.7	mg/Kg wet	314		105	82.2-117.8			
Beryllium	58.2	0.47	mg/Kg wet	53.4		109	82.8-117.2			
Cadmium	199	0.47	mg/Kg wet	193		103	82.4-117.6			
Chromium	81.0	0.94	mg/Kg wet	82.6		98.1	81.8-118.2			
Copper	181	0.94	mg/Kg wet	171		106	83.6-116.4			
Lead	88.0	1.4	mg/Kg wet	92.3		95.4	82.8-117			
Nickel	142	0.94	mg/Kg wet	137		103	82.5-118.2			
Selenium	189	9.4	mg/Kg wet	187		101	79.1-121.4			
Silver	41.7	0.94	mg/Kg wet	40.7		102	79.6-120.4			
Thallium	165	4.7	mg/Kg wet	153		108	81-119			
Vanadium	90.7	1.9	mg/Kg wet	86.6		105	77.6-122.4			
Zinc	193	1.9	mg/Kg wet	189		102	79.9-120.1			
LCS Dup (B198516-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Antimony	48.6	4.6	mg/Kg wet	65.1		74.6	3.8-212	25.6	30	
Arsenic	141	4.6	mg/Kg wet	147		95.9	83-117	2.73	30	
Barium	319	4.6	mg/Kg wet	314		102	82.2-117.8	3.33	30	
Beryllium	57.2	0.46	mg/Kg wet	53.4		107	82.8-117.2	1.66	30	
Cadmium	188	0.46	mg/Kg wet	193		97.2	82.4-117.6	5.79	30	
Chromium	80.5	0.93	mg/Kg wet	82.6		97.5	81.8-118.2	0.616	30	
Copper	178	0.93	mg/Kg wet	171		104	83.6-116.4	1.43	30	
Lead	98.8	1.4	mg/Kg wet	92.3		107	82.8-117	11.5	30	
Nickel	134	0.93	mg/Kg wet	137		98.0	82.5-118.2	5.25	30	
Selenium	176	9.3	mg/Kg wet	187		93.9	79.1-121.4	7.26	30	
Silver	40.8	0.93	mg/Kg wet	40.7		100	79.6-120.4	2.13	30	
Thallium	159	4.6	mg/Kg wet	153		104	81-119	3.35	30	
Vanadium	83.7	1.9	mg/Kg wet	86.6		96.7	77.6-122.4	7.95	30	
Zinc	184	1.9	mg/Kg wet	189		97.3	79.9-120.1	4.95	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 B198516 - SW-846 3050B												
Duplicate (B198516-DUP1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18								
Antimony	ND	1.9	mg/Kg dry		ND				NC		35	
Arsenic	ND	1.9	mg/Kg dry		ND				NC		35	
Barium	62.8	1.9	mg/Kg dry		70.5				11.5		35	
Beryllium	ND	0.19	mg/Kg dry		0.202				NC		35	
Cadmium	ND	0.19	mg/Kg dry		0.235				NC		35	
Chromium	12.5	0.39	mg/Kg dry		14.4				14.0		35	
Copper	38.9	0.39	mg/Kg dry		27.3				**35.1**	*	35	R-02
Lead	10.7	0.58	mg/Kg dry		13.2				20.9		35	
Nickel	13.8	0.39	mg/Kg dry		14.1				2.53		35	
Selenium	ND	3.9	mg/Kg dry		ND				NC		35	
Silver	ND	0.77	mg/Kg dry		ND				NC		35	DL-04
Thallium	ND	1.9	mg/Kg dry		ND				NC		35	
Vanadium	41.7	0.77	mg/Kg dry		39.8				4.77		35	
Zinc	45.4	0.77	mg/Kg dry		46.6				2.75		35	
MRL Check (B198516-MRL1)				Prepared: 03/09/18 Analyzed: 03/12/18								
Lead	0.526	0.49	mg/Kg wet	0.488		108		80-120				
Matrix Spike (B198516-MS1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18								
Antimony	8.16	1.8	mg/Kg dry	18.3	ND	**44.5**	*	75-125				MS-07A
Arsenic	17.7	1.8	mg/Kg dry	18.3	1.49	88.6		75-125				
Barium	105	1.8	mg/Kg dry	18.3	70.5	**188**	*	75-125				MS-12
Beryllium	18.7	0.18	mg/Kg dry	18.3	0.202	101		75-125				
Cadmium	17.9	0.18	mg/Kg dry	18.3	0.235	96.3		75-125				
Chromium	31.5	0.37	mg/Kg dry	18.3	14.4	93.4		75-125				
Copper	72.4	0.37	mg/Kg dry	36.7	27.3	123		75-125				
Lead	38.6	0.55	mg/Kg dry	18.3	13.2	**138**	*	75-125				MS-22
Nickel	31.4	0.37	mg/Kg dry	18.3	14.1	93.9		75-125				
Selenium	13.3	3.7	mg/Kg dry	18.3	ND	**72.6**	*	75-125				MS-07
Silver	16.4	0.37	mg/Kg dry	18.3	ND	89.6		75-125				
Thallium	21.4	1.8	mg/Kg dry	18.3	ND	117		75-125				
Vanadium	47.4	0.73	mg/Kg dry	18.3	39.8	**41.7**	*	75-125				MS-22
Zinc	90.1	0.73	mg/Kg dry	36.7	46.6	119		75-125				
Matrix Spike (B198516-MS2)	**Source: 18C0362-18**			Prepared: 03/09/18 Analyzed: 03/12/18								
Antimony	8.37	1.9	mg/Kg dry	19.0	ND	**43.9**	*	75-125				MS-07A
Arsenic	18.3	1.9	mg/Kg dry	19.0	ND	95.9		75-125				
Barium	76.7	1.9	mg/Kg dry	19.0	40.4	**191**	*	75-125				MS-12
Beryllium	19.5	0.19	mg/Kg dry	19.0	0.208	101		75-125				
Cadmium	18.3	0.19	mg/Kg dry	19.0	0.133	95.5		75-125				
Chromium	35.5	0.38	mg/Kg dry	19.0	14.2	112		75-125				
Copper	66.2	0.38	mg/Kg dry	38.1	19.4	123		75-125				
Lead	27.7	0.57	mg/Kg dry	19.0	12.7	79.0		75-125				
Nickel	33.1	0.38	mg/Kg dry	19.0	11.5	113		75-125				
Selenium	13.4	3.8	mg/Kg dry	19.0	ND	**70.5**	*	75-125				MS-07
Silver	16.6	0.38	mg/Kg dry	19.0	ND	86.9		75-125				
Thallium	21.9	1.9	mg/Kg dry	19.0	ND	115		75-125				
Vanadium	54.1	0.76	mg/Kg dry	19.0	28.1	**136**	*	75-125				MS-22
Zinc	82.1	0.76	mg/Kg dry	38.1	35.6	122		75-125				

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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 B198516 - SW-846 3050B											
Matrix Spike Dup (B198516-MSD1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
Antimony	7.45	1.8	mg/Kg dry	18.4	ND	**40.5**	*	75-125	9.14	35	MS-07A
Arsenic	18.7	1.8	mg/Kg dry	18.4	1.49	93.4		75-125	5.21	35	
Barium	102	1.8	mg/Kg dry	18.4	70.5	**171**	*	75-125	2.87	35	MS-12
Beryllium	18.9	0.18	mg/Kg dry	18.4	0.202	101		75-125	0.606	35	
Cadmium	18.0	0.18	mg/Kg dry	18.4	0.235	96.3		75-125	0.362	35	
Chromium	35.1	0.37	mg/Kg dry	18.4	14.4	112		75-125	10.7	35	
Copper	66.5	0.37	mg/Kg dry	36.8	27.3	107		75-125	8.55	35	
Lead	33.5	0.55	mg/Kg dry	18.4	13.2	110		75-125	14.1	35	
Nickel	34.7	0.37	mg/Kg dry	18.4	14.1	112		75-125	10.1	35	
Selenium	11.9	3.7	mg/Kg dry	18.4	ND	**64.4**	*	75-125	11.6	35	MS-07
Silver	16.4	0.37	mg/Kg dry	18.4	ND	89.2		75-125	0.0405	35	
Thallium	21.2	1.8	mg/Kg dry	18.4	ND	115		75-125	0.585	35	
Vanadium	57.4	0.74	mg/Kg dry	18.4	39.8	95.5		75-125	19.0	35	
Zinc	85.4	0.74	mg/Kg dry	36.8	46.6	105		75-125	5.38	35	
Matrix Spike Dup (B198516-MSD2)	**Source: 18C0362-18**			Prepared: 03/09/18 Analyzed: 03/12/18							
Antimony	8.21	1.9	mg/Kg dry	18.9	ND	**43.3**	*	75-125	1.94	35	MS-07A
Arsenic	18.9	1.9	mg/Kg dry	18.9	ND	100		75-125	3.66	35	
Barium	94.2	1.9	mg/Kg dry	18.9	40.4	**284**	*	75-125	20.5	35	MS-12
Beryllium	19.2	0.19	mg/Kg dry	18.9	0.208	100		75-125	1.80	35	
Cadmium	18.1	0.19	mg/Kg dry	18.9	0.133	94.8		75-125	1.27	35	
Chromium	35.3	0.38	mg/Kg dry	18.9	14.2	112		75-125	0.548	35	
Copper	64.7	0.38	mg/Kg dry	37.9	19.4	120		75-125	2.25	35	
Lead	29.3	0.57	mg/Kg dry	18.9	12.7	88.0		75-125	5.68	35	
Nickel	34.1	0.38	mg/Kg dry	18.9	11.5	119		75-125	3.02	35	
Selenium	12.1	3.8	mg/Kg dry	18.9	ND	**63.8**	*	75-125	10.6	35	MS-07
Silver	16.4	0.38	mg/Kg dry	18.9	ND	86.7		75-125	0.791	35	
Thallium	21.3	1.9	mg/Kg dry	18.9	ND	112		75-125	3.01	35	
Vanadium	50.0	0.76	mg/Kg dry	18.9	28.1	115		75-125	7.83	35	
Zinc	77.0	0.76	mg/Kg dry	37.9	35.6	109		75-125	6.41	35	
Post Spike (B198516-PS1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18							
Antimony	1.93		mg/L	2.00	0.00	96.3		75-125			
Barium	3.71		mg/L	2.00	1.86	92.6		75-125			
Lead	2.11		mg/L	2.00	0.349	88.0		75-125			
Selenium	1.74		mg/L	2.00	-0.0799	86.9		75-125			
Vanadium	2.93		mg/L	2.00	1.05	93.9		75-125			
Post Spike (B198516-PS2)	**Source: 18C0362-18**			Prepared: 03/09/18 Analyzed: 03/12/18							
Antimony	1.90		mg/L	2.00	0.00	95.0		75-125			
Barium	2.87		mg/L	2.00	1.05	90.6		75-125			
Lead	2.08		mg/L	2.00	0.330	87.3		75-125			
Selenium	1.78		mg/L	2.00	-0.0428	88.8		75-125			
Vanadium	2.57		mg/L	2.00	0.734	92.0		75-125			

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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 B198517 - SW-846 7471										
Blank (B198517-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B198517-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	9.74	2.0	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B198517-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	11.6	2.0	mg/Kg wet	9.36		124	73.7-126.3	17.6	30	
Duplicate (B198517-DUP1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	ND	0.029	mg/Kg dry		ND			NC	35	
Matrix Spike (B198517-MS1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	0.199	0.029	mg/Kg dry	0.190	0.0228	92.7	75-125			
Matrix Spike (B198517-MS2)	**Source: 18C0362-18**			Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	0.200	0.030	mg/Kg dry	0.197	0.0156	93.9	75-125			
Matrix Spike Dup (B198517-MSD1)	**Source: 18C0362-09**			Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	0.197	0.029	mg/Kg dry	0.190	0.0228	91.4	75-125	1.27	35	
Matrix Spike Dup (B198517-MSD2)	**Source: 18C0362-18**			Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	0.201	0.030	mg/Kg dry	0.198	0.0156	93.4	75-125	0.0530	35	

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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 B198492 - % Solids										
Duplicate (B198492-DUP1)	**Source: 18C0362-05**			Prepared: 03/08/18 Analyzed: 03/09/18						
% Solids	85.9		% Wt		86.0			0.104	20	
Duplicate (B198492-DUP2)	**Source: 18C0362-09**			Prepared: 03/08/18 Analyzed: 03/09/18						
% Solids	88.7		% Wt		87.0			1.93	20	
Duplicate (B198492-DUP3)	**Source: 18C0362-14**			Prepared: 03/08/18 Analyzed: 03/09/18						
% Solids	86.0		% Wt		85.8			0.157	20	
Duplicate (B198492-DUP4)	**Source: 18C0362-18**			Prepared: 03/08/18 Analyzed: 03/09/18						
% Solids	85.0		% Wt		84.5			0.566	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-218A (0-0.5)

Lab Sample ID: 18C0362-03 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-220B (3-4)

Lab Sample ID: 18C0362-08 Date(s) Analyzed: 03/12/2018 03/12/2018

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	3.1	
	2	0.000	-0.030	0.030	3.0	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-221A (0-1)

Lab Sample ID: 18C0362-09 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.20	
	2	0.000	-0.030	0.030	0.22	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-222A (0-0.5)

Lab Sample ID: 18C0362-11 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.99	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-223A (0-0.5)

Lab Sample ID: 18C0362-13 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.12	
	2	0.000	-0.030	0.030	0.14	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-223B (3-4)

Lab Sample ID: 18C0362-14 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.25	
	2	0.000	-0.030	0.030	0.28	11.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-224A (0-0.5)

Lab Sample ID: 18C0362-15 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-224C (7-8)

Lab Sample ID: 18C0362-17 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.18	
	2	0.000	-0.030	0.030	0.15	18.2
Aroclor-1260	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.44	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-225A (0-0.5)

Lab Sample ID: 18C0362-18 Date(s) Analyzed: 03/11/2018 03/11/2018

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	0.24	
	2	0.000	-0.030	0.030	0.26	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-225B (3-4)

Lab Sample ID: 18C0362-19 Date(s) Analyzed: 03/12/2018 03/12/2018

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	3.1	
	2	0.000	-0.030	0.030	2.9	6.7
Aroclor-1260	1	0.000	-0.030	0.030	5.8	
	2	0.000	-0.030	0.030	5.5	5.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-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-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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
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 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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(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
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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
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	02/5/2019
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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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com 18C0362 Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 5

Company Name: Nexton & 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 Pagliuca & Will Smolnak

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pagliuca@nextonsampson.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@nxsinc.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	RSR IS Metals										
1	B-217A (0-0.5)	3/8/18	900		X	S	U	X												
2	B-217B (7-8)		905					X												
3	B-218A (0-0.5)		0935					X												
4	B-218B (3-4)		0940					X												
5	B-219A (0-0.5)		0955					X												
6	B-219B (3-4)		1000					X												
7	B-220A (0-0.5)		1015					X												
8	B-220B (3-4)		1020					X												
9	B-221A (0-1)		1030					X	X	X										
10	B-221B (3-4)	↓	1035		↓	↓	↓	X												

ANALYSIS REQUESTED

# of Containers
² Preservation Code
³ Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
Additional soil has been submitted for possible SPLP reanalysis after results have been reviewed. Please run MSMSD on B-219A for PCBs, and B-221A (0-1) for SVOCs.

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

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

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

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:	Received by: (signature)	Date/Time:
				3/8/18 15:45
				3/8/18 17:40
				3/8/18 1740

Detection Limit Requirements
MA:
CT: GA PMC RES DEC ITC DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required:
☒ CT RCP Required
RCP Certification Form Required:
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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East Longmeadow, MA 01028

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD 18C0362

Page 2 of 5

Company Name: Weston & Sampson
Address: 213 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 Baker
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Baker
Sampled By: Gabriella Pagliuca & Will Sinotnak

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Pagliuca9@wseinc.com
CLP Like Data Pkg Required: ☐
Email To: beclerm@wseinc.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								
11	B-221A (0-0.5)	3/8/18	1050		X	S	U	X										
12	B-222B (3-4)		1055					X										
13	B-223A (0-0.5)		1100					X										
14	B-223B (3-4)		1105					X	X	X								
15	B-224A (0-0.5)		1120					X										
16	B-224B (3-4)		1125					X										
17	B-224C (7-8)		1130					X										
18	B-225A (0-0.5)		1140					X		X								
19	B-225B (3-4)		1145					X										
20	B-225C (7-8)		1150		↓	↓	↓	X										

ANALYSIS REQUESTED

# of Containers	1	1
[2] Preservation Code	H	H
[3] Container Code	A	P

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

Comments:
Additional soil has been submitted for possible SPLP reanalysis after results have been reviewed. Please run MS/MSD on B-223B (3-4) for ETPH and on B-225A (0-0.5) for Metals.

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

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

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

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

	Date/Time:
Relinquished by: (signature)	
Received by: (signature)	3/8/18 3:45 pm
Relinquished by: (signature)	3/8/18 17:40
Received by: (signature) Sam Sinnig 20,22,30	3/9/18 1740
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT GW 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 #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By SE Date 3/8/18 Time 1740

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct from Sampling ~~577~~ SE Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 20.2, 2.3.3

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T Who was notified? ____

Are there Short Holds? F Who was notified? Ray

Is there enough Volume? T Who was notified? ____

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		(16 oz Amb.)	29
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

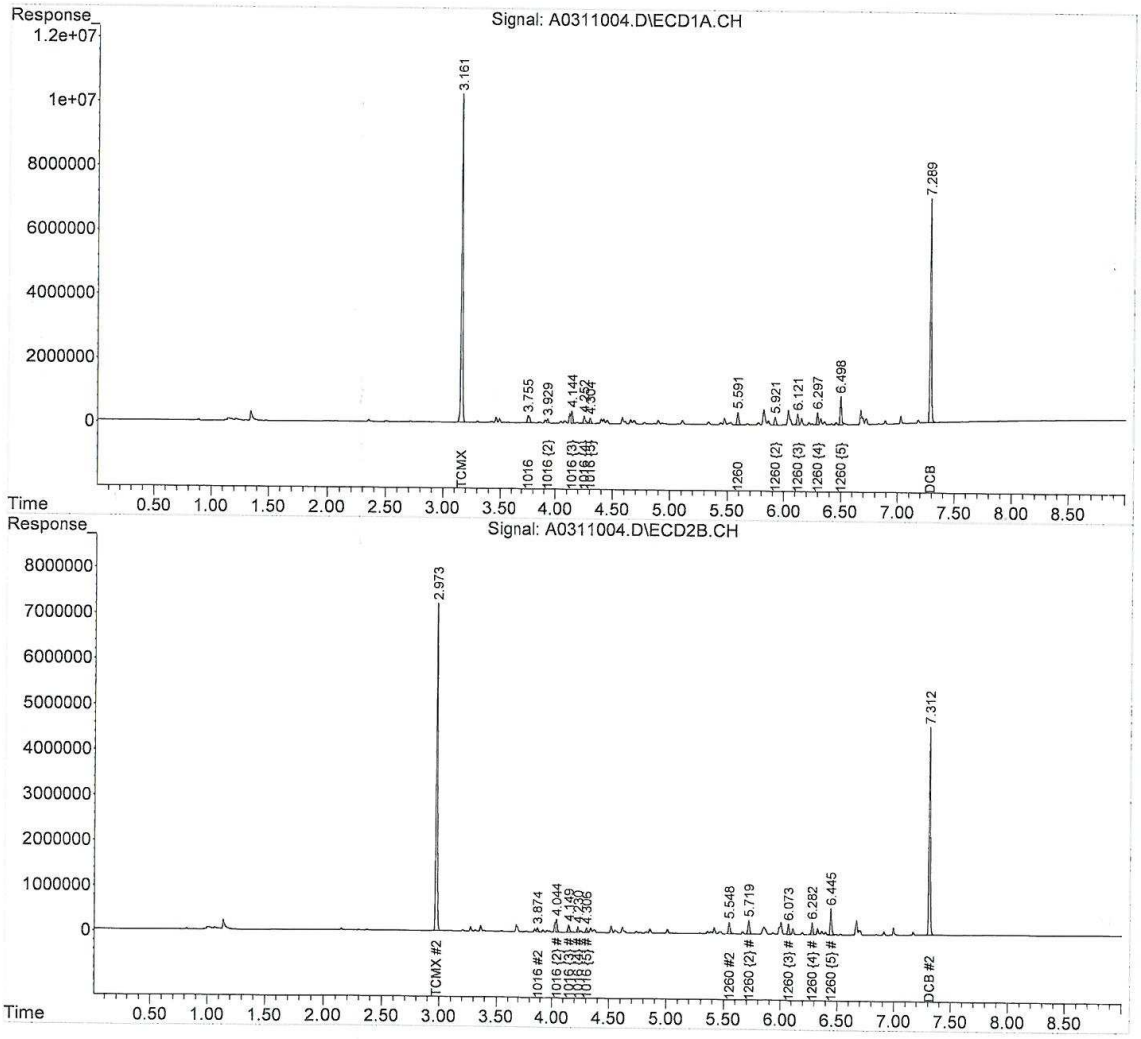
- Received in 3 coolers

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 10:35 am
Operator : JMB
Sample : 1260/1016 100 Inst : HP G1530A
Misc : 1801221
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 06:36:22 2018
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

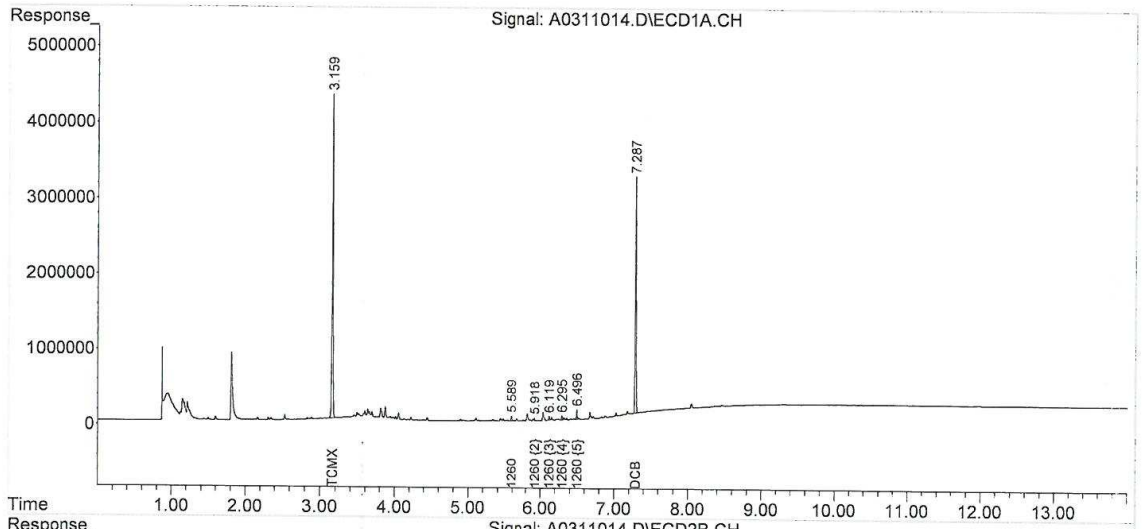


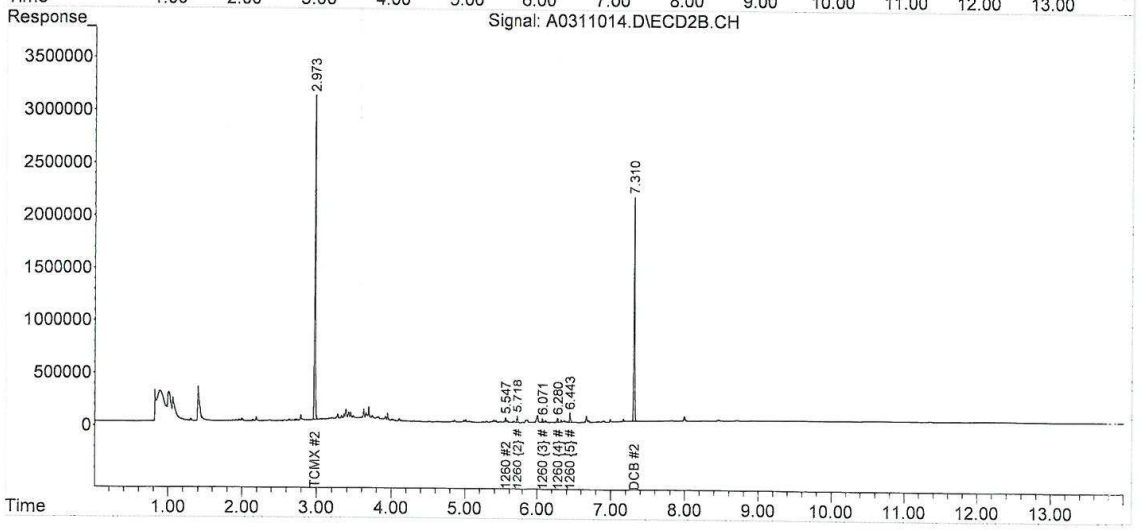
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 5:24 pm
Operator : JMB
Sample : 18C0362-01@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:34:32 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



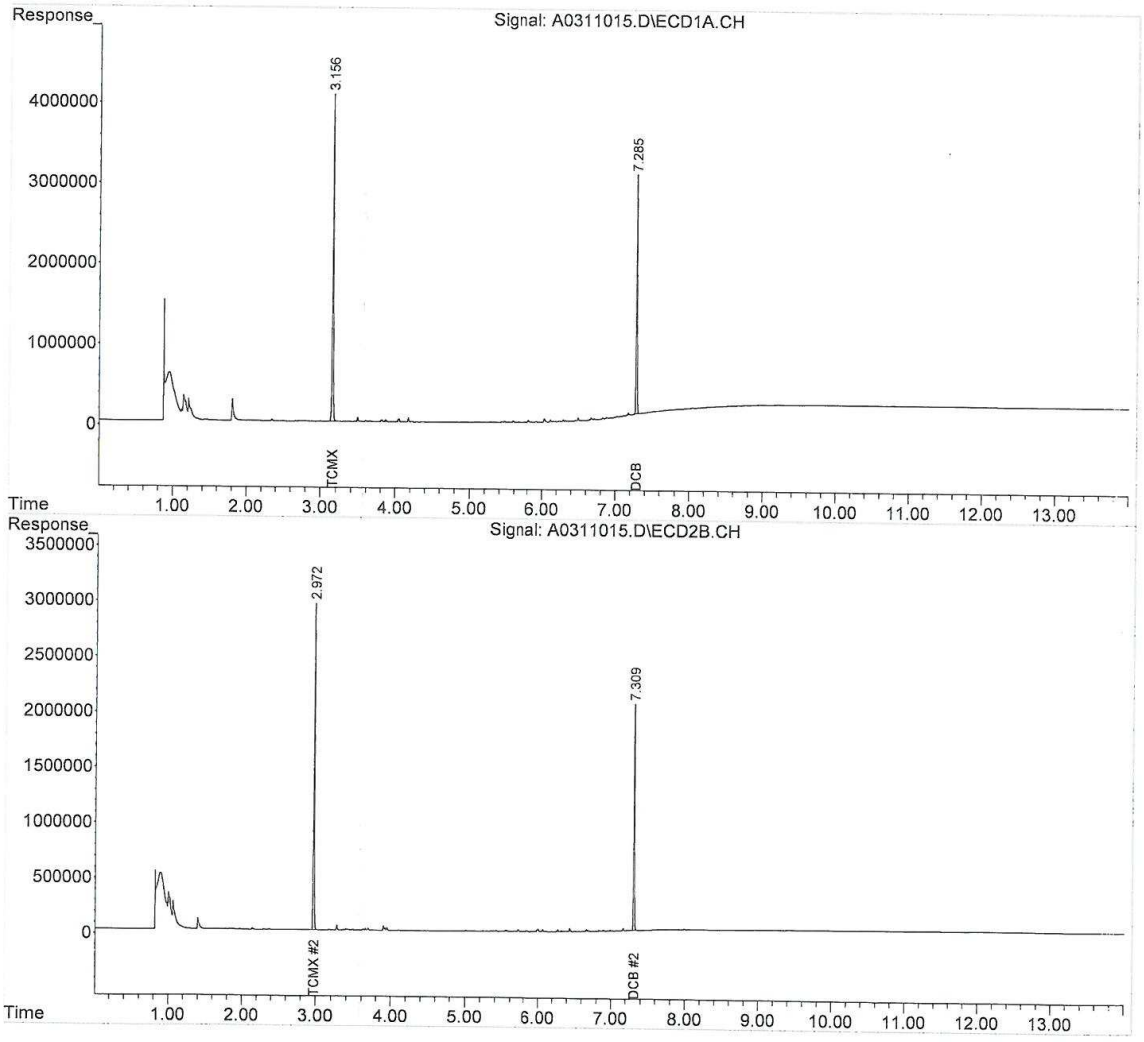


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 5:42 pm
Operator : JMB
Sample : 18C0362-02@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:35:06 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



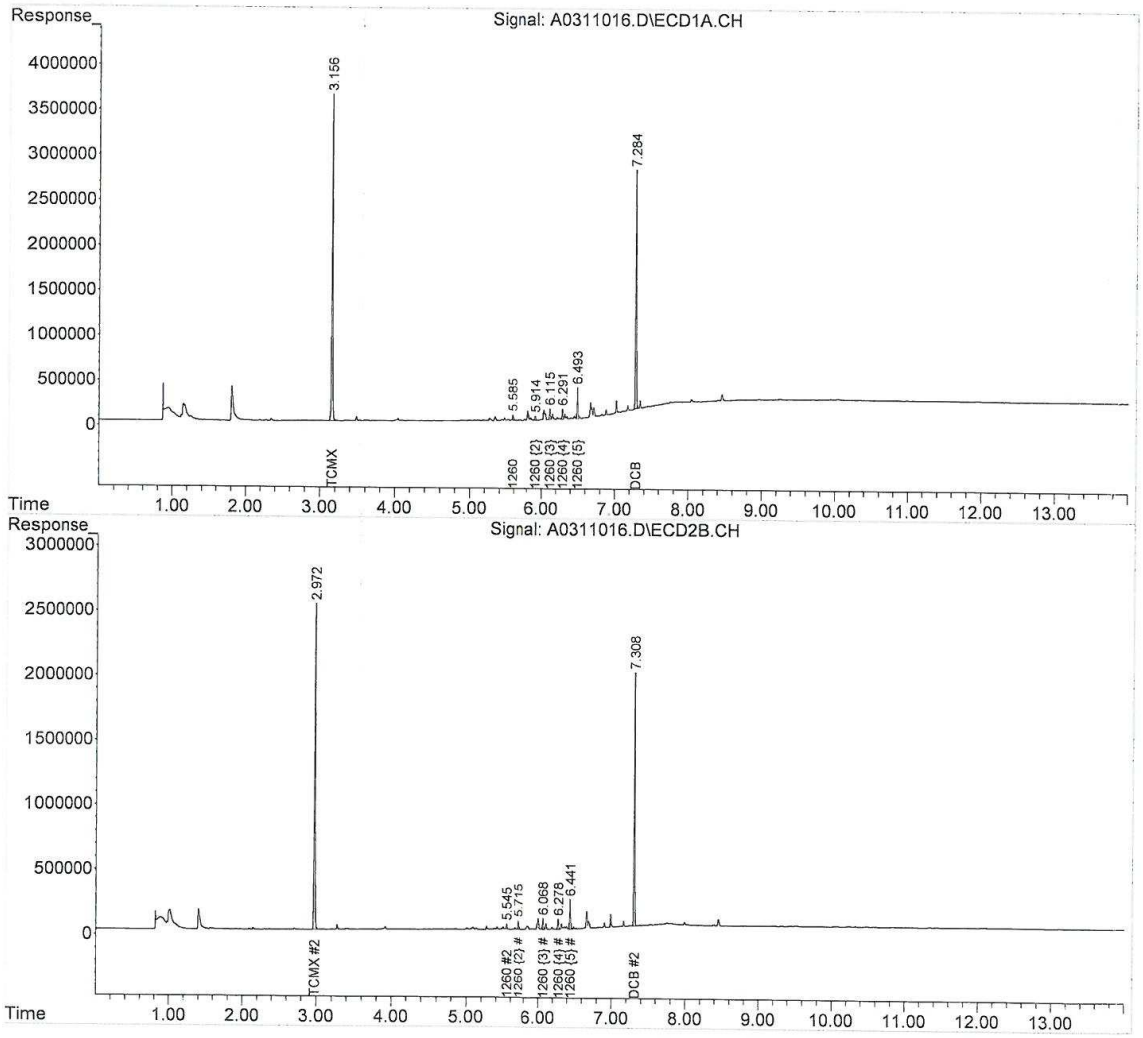
1-1260-031118.M Mon Mar 12 15:14:24 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 6:00 pm
Operator : JMB
Sample : 18C0362-03@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:35:44 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



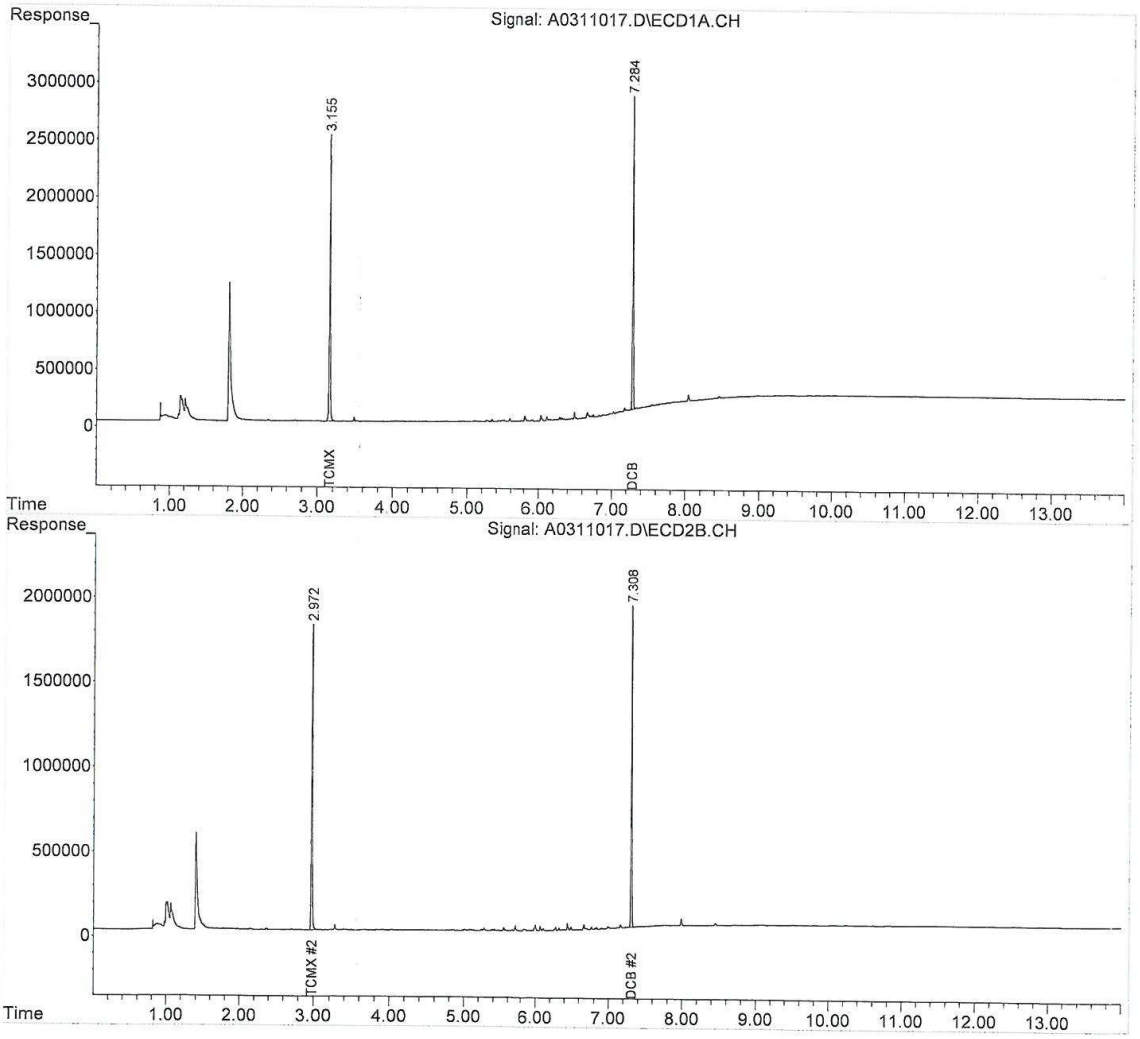
1-1260-031118.M Mon Mar 12 15:14:29 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 6:18 pm
Operator : JMB
Sample : 18C0362-04@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:36:33 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



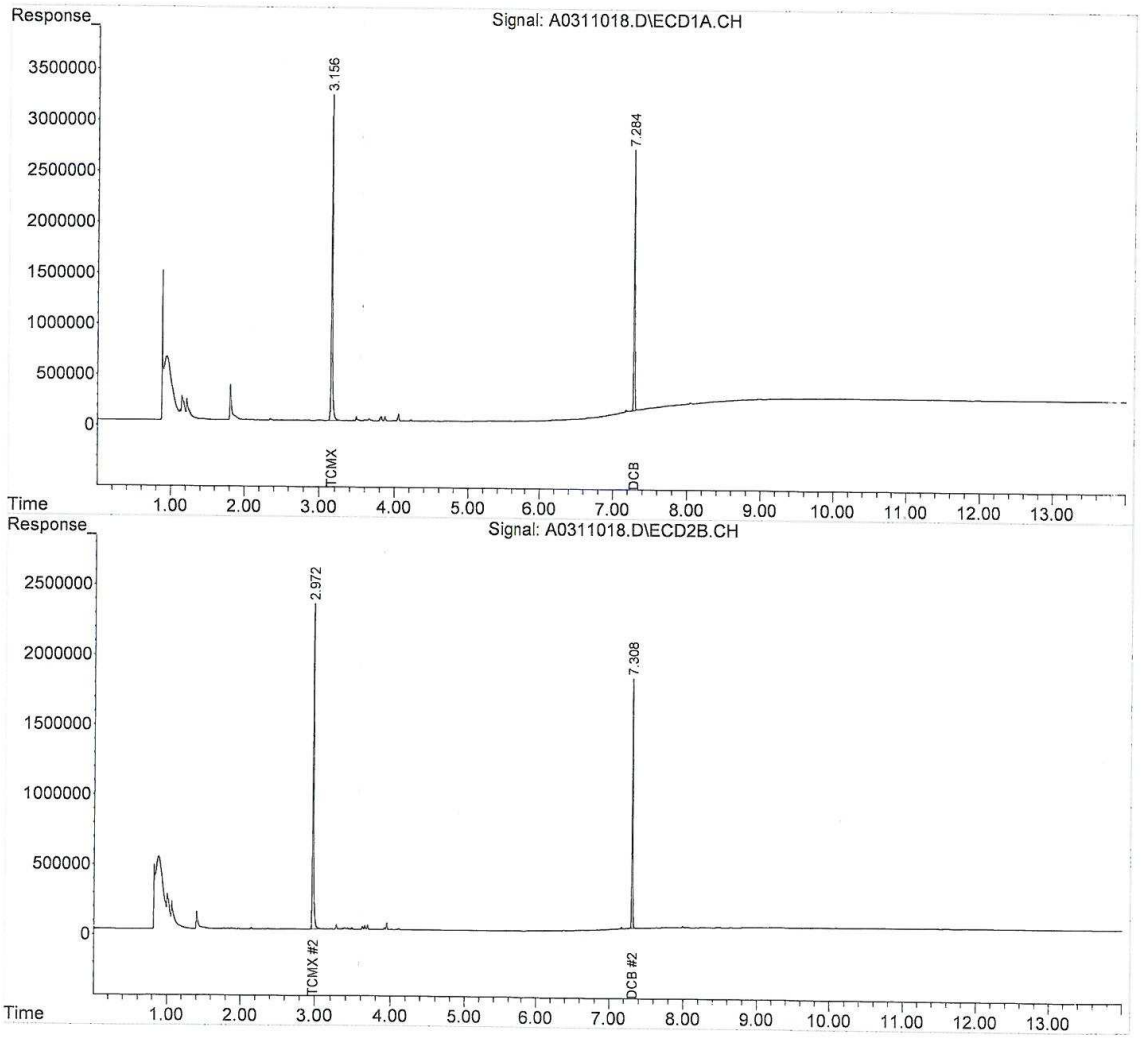
1-1260-031118.M Mon Mar 12 15:14:34 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 6:36 pm
Operator : JMB
Sample : 18C0362-05@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:37:01 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



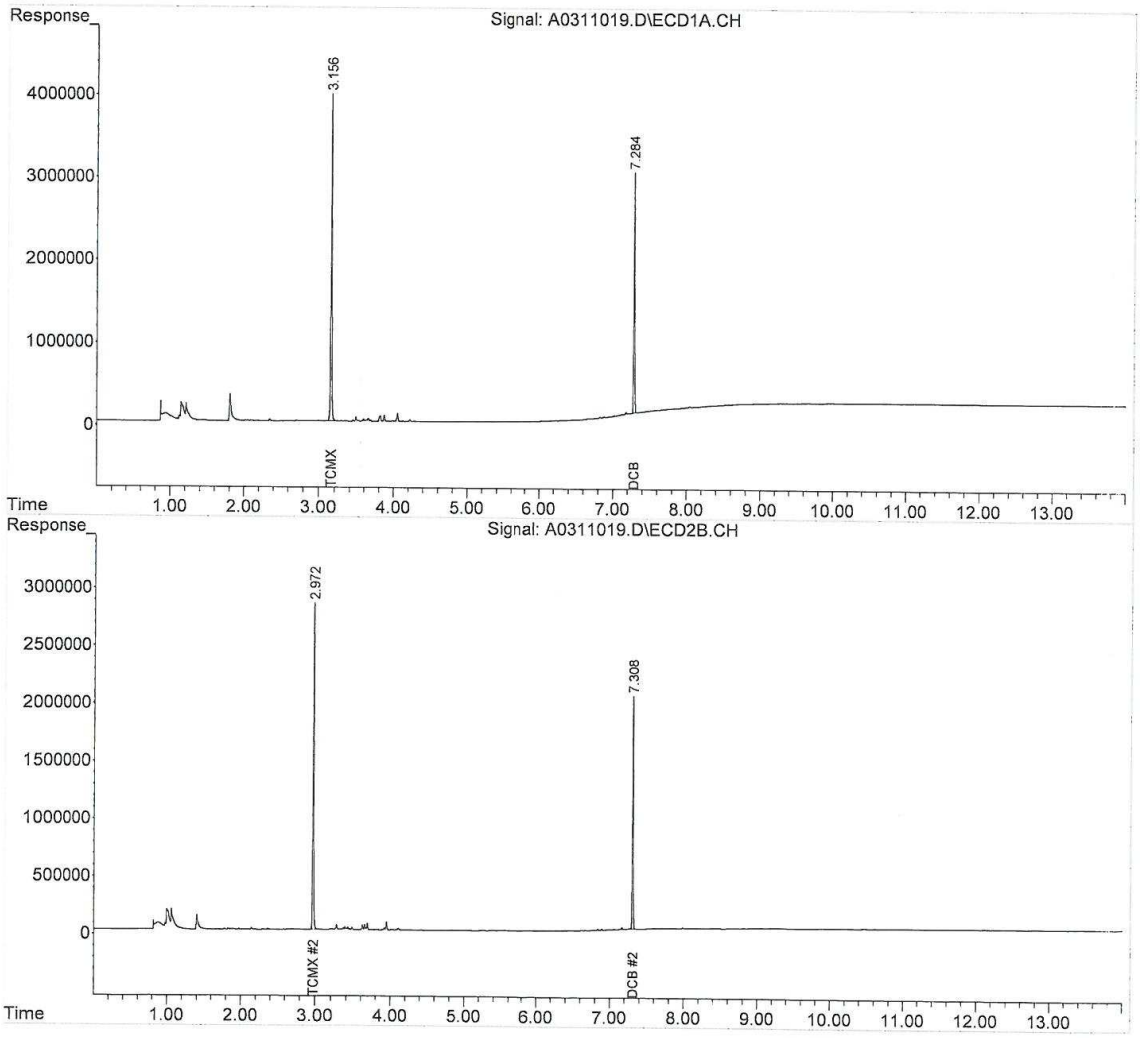
1-1260-031118.M Mon Mar 12 15:14:38 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 6:54 pm
Operator : JMB
Sample : 18C0362-06@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:37:48 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



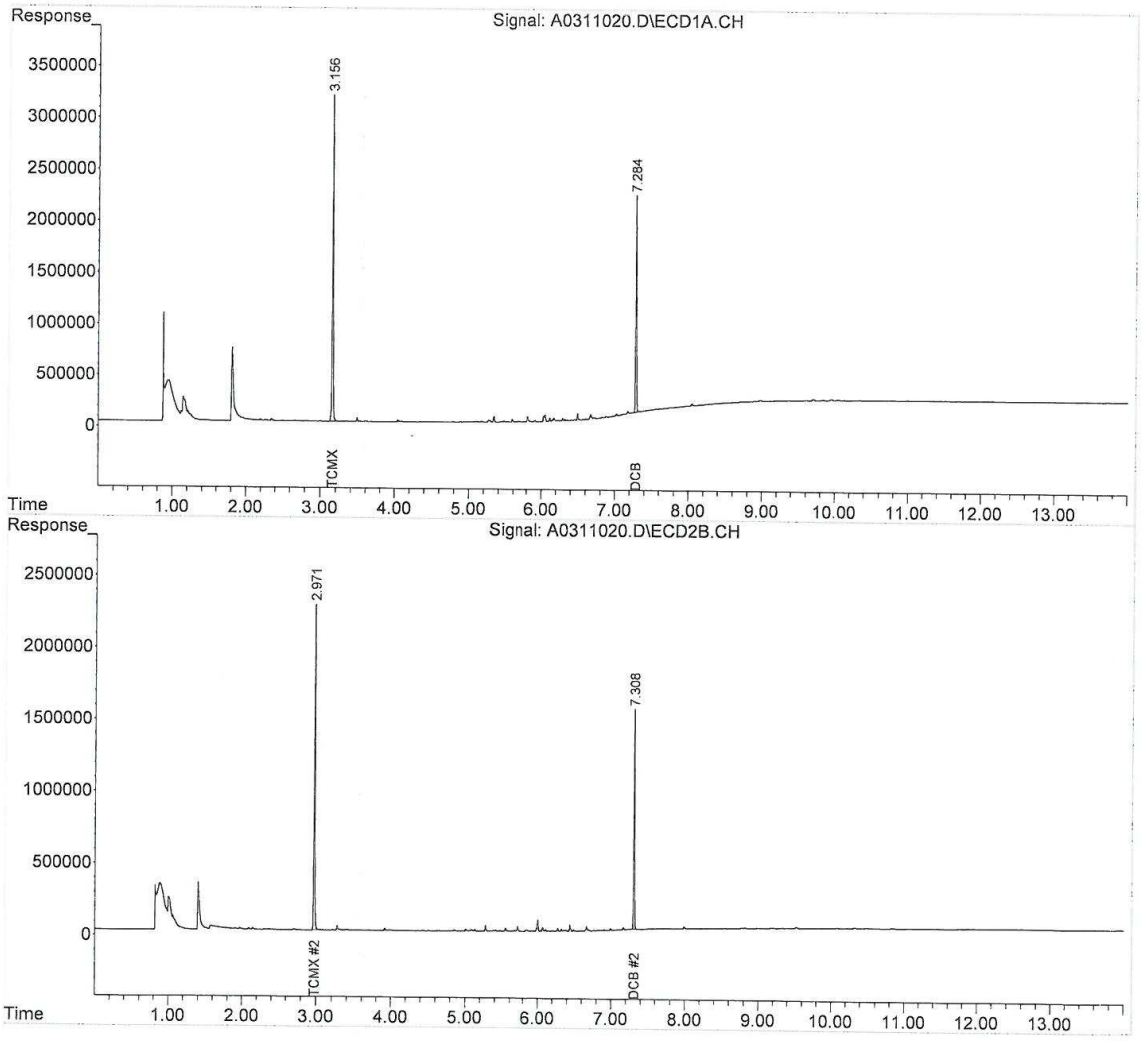
1-1260-031118.M Mon Mar 12 15:14:45 2018 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 7:12 pm
Operator : JMB
Sample : 18C0362-07@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:38:19 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



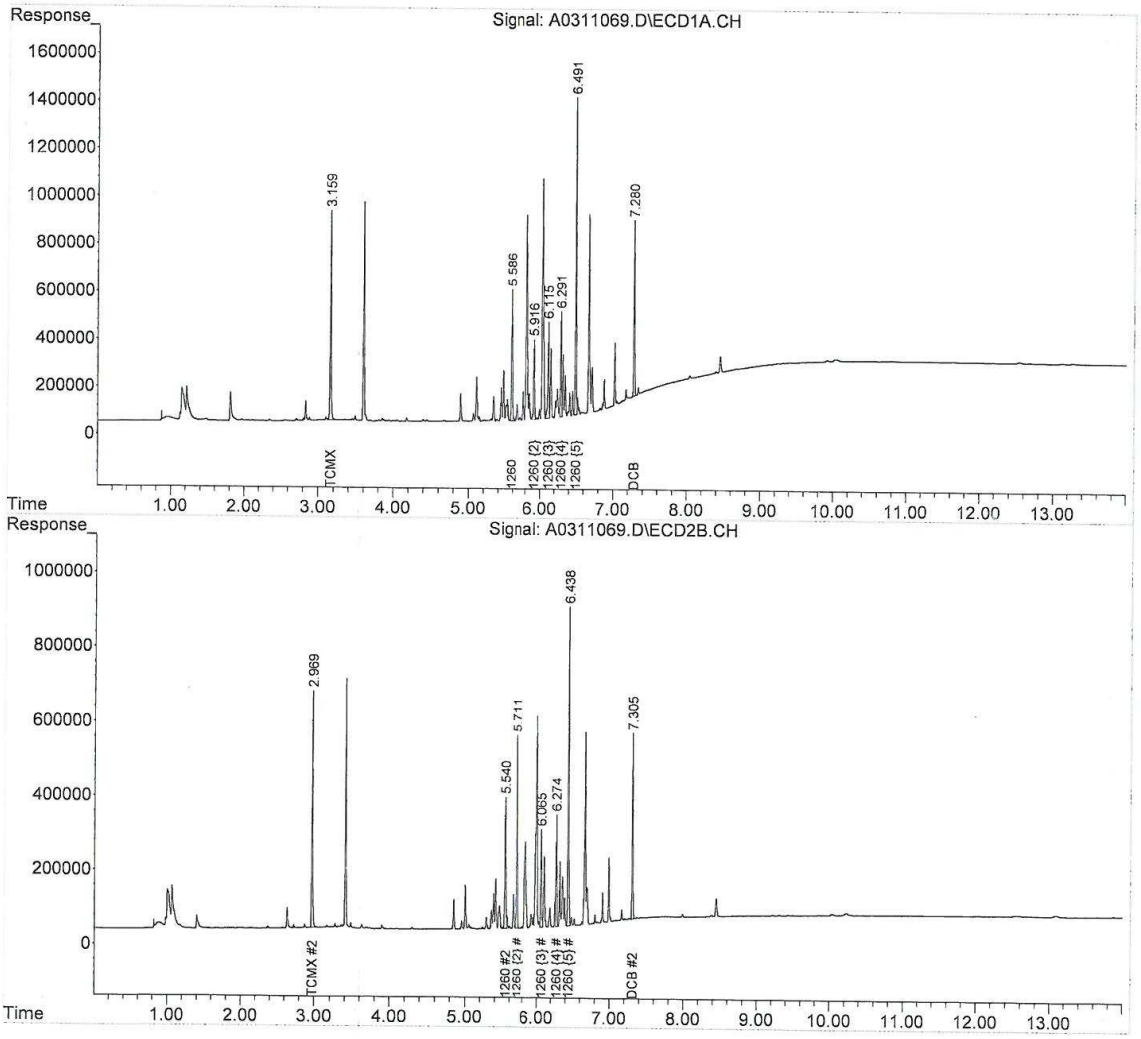
1-1260-031118.M Mon Mar 12 15:14:50 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311069.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Mar 2018 12:25 pm
Operator : JMB
Sample : 18C0362-08@20X TBA Inst : HP G1530A
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 14:08:56 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

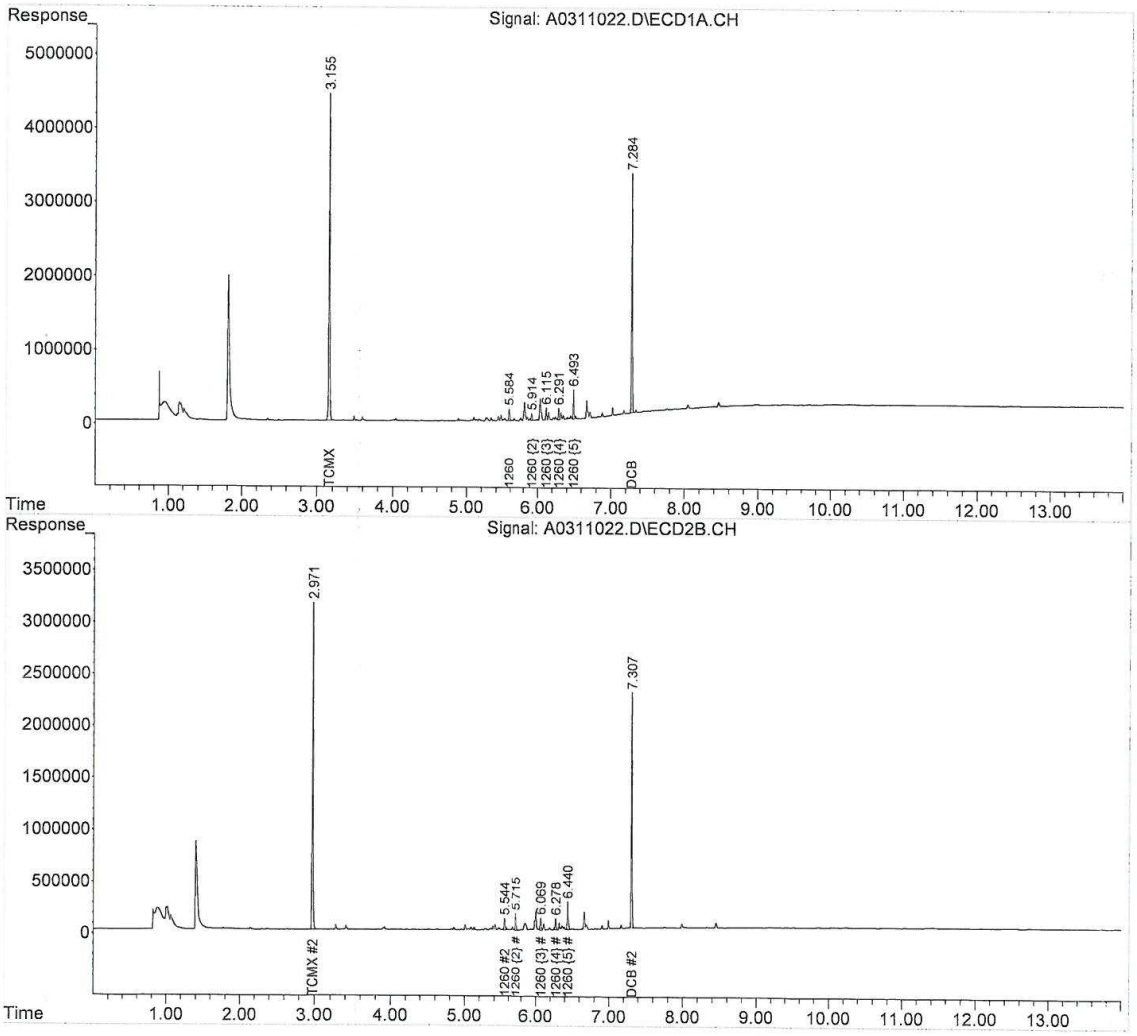


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 7:48 pm
Operator : JMB
Sample : 18C0362-09@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:39:29 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

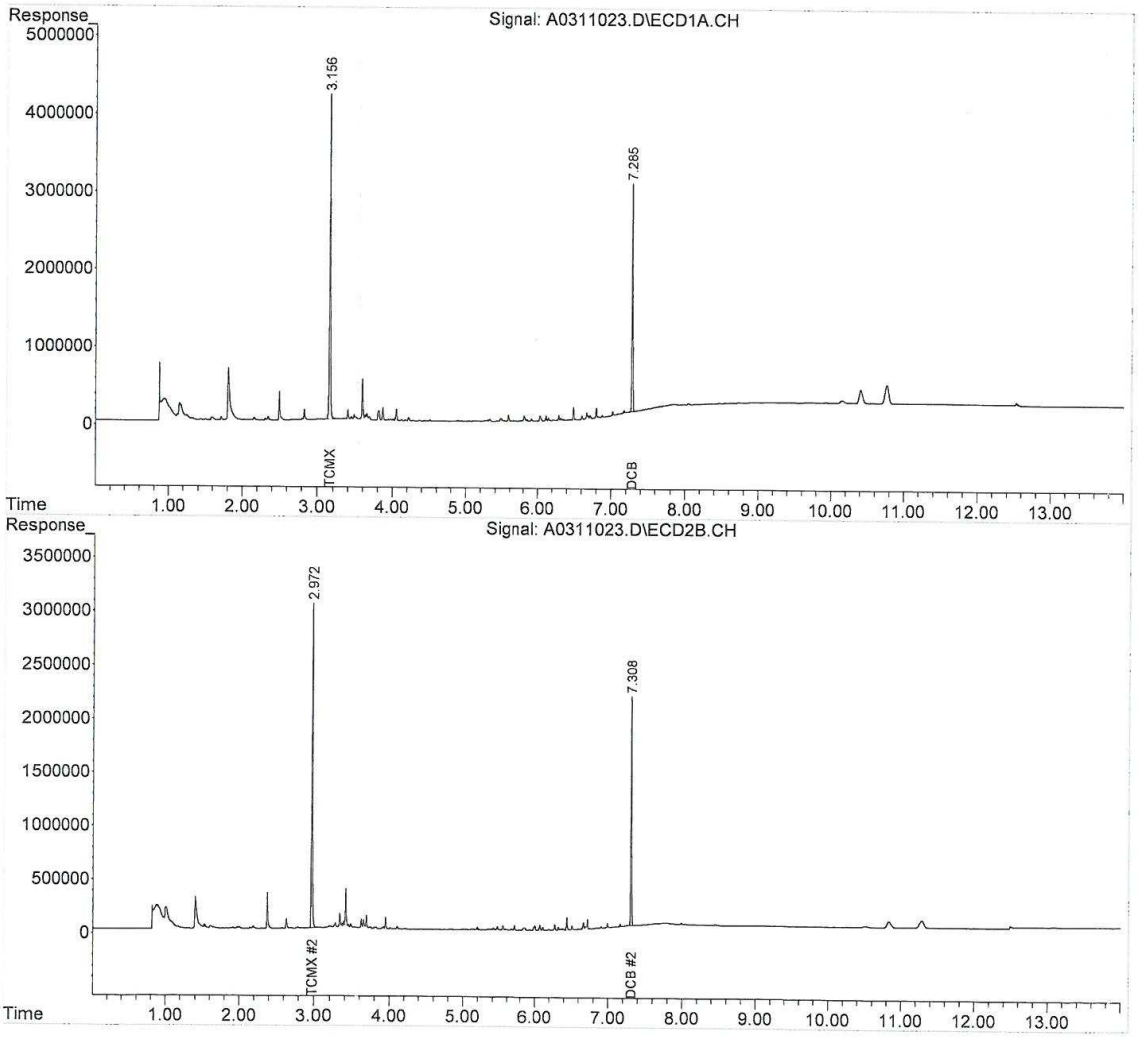


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 8:06 pm
Operator : JMB
Sample : 18C0362-10@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:40:16 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



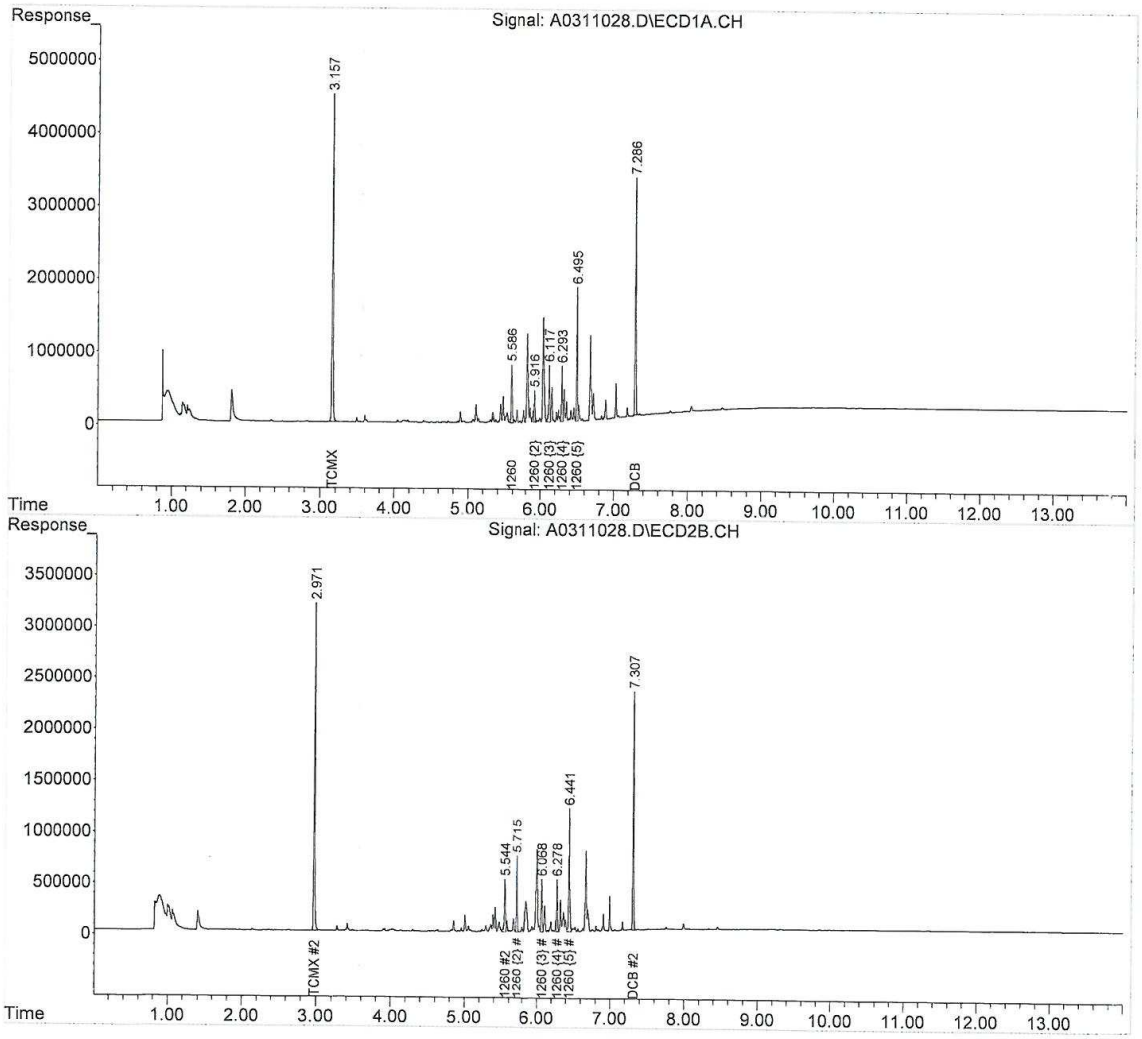
1-1260-031118.M Mon Mar 12 15:15:09 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 9:32 pm
Operator : JMB
Sample : 18C0362-11@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:45:54 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



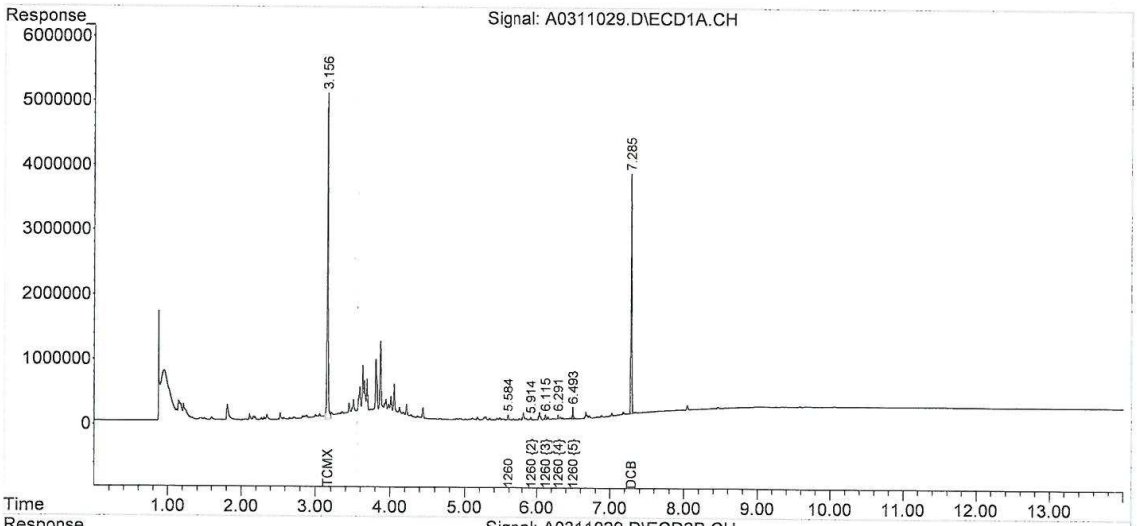
1-1260-031118.M Mon Mar 12 15:15:21 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 9:49 pm
Operator : JMB
Sample : 18C0362-12@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:47:45 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



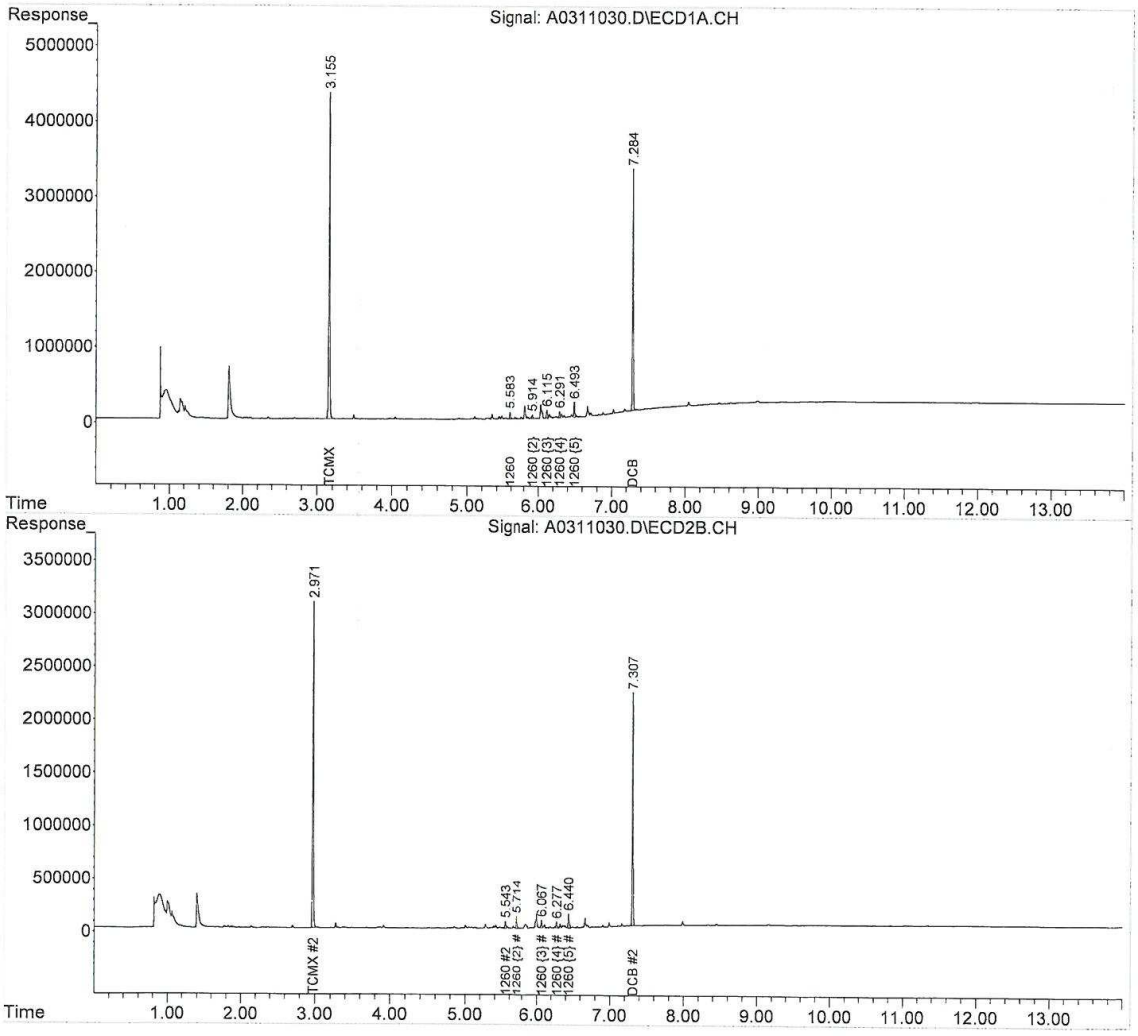
1-1260-031118.M Mon Mar 12 15:15:27 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 10:07 pm
Operator : JMB
Sample : 18C0362-13@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:46:46 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



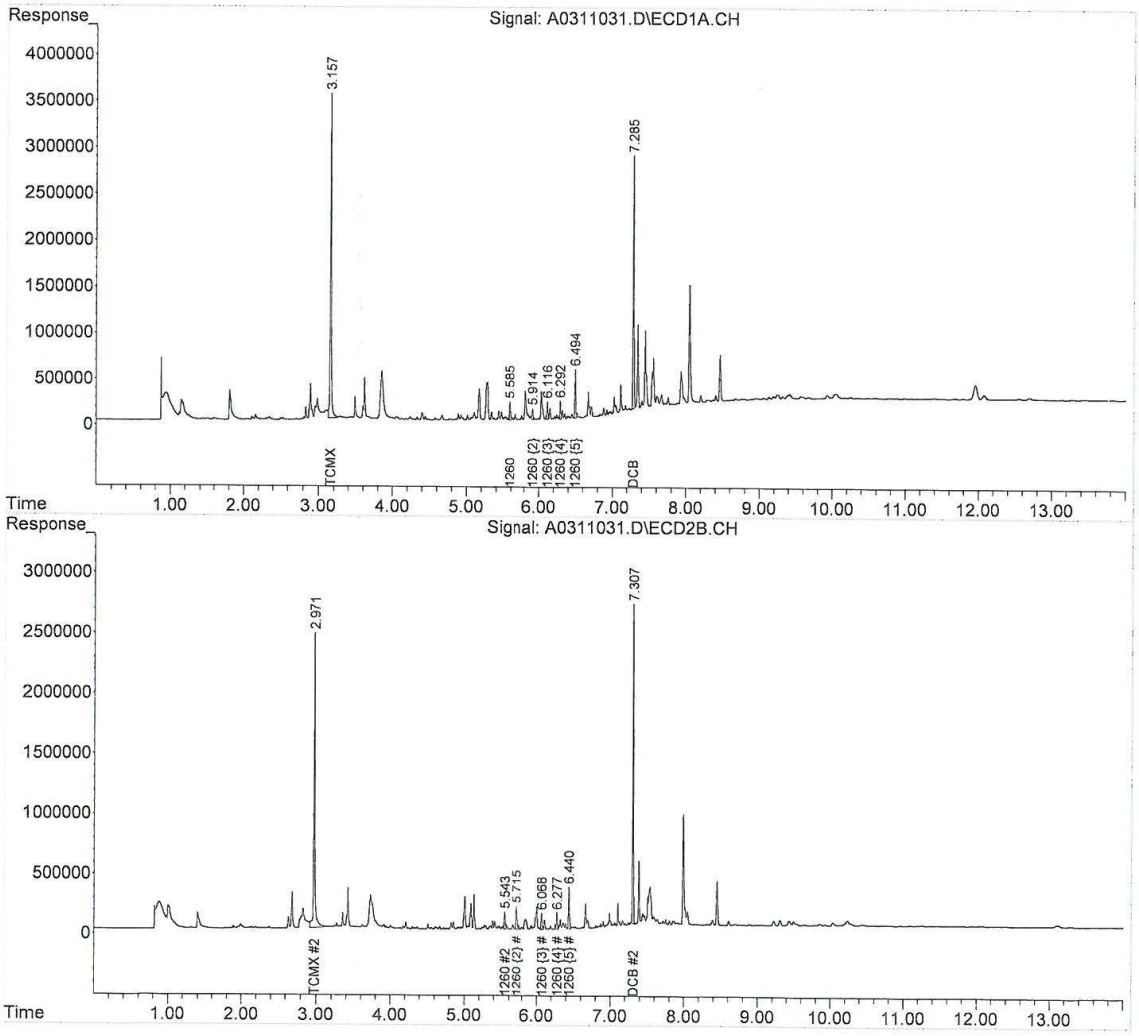
1-1260-031118.M Mon Mar 12 15:15:31 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 10:26 pm
Operator : JMB
Sample : 18C0362-14@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:49:51 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

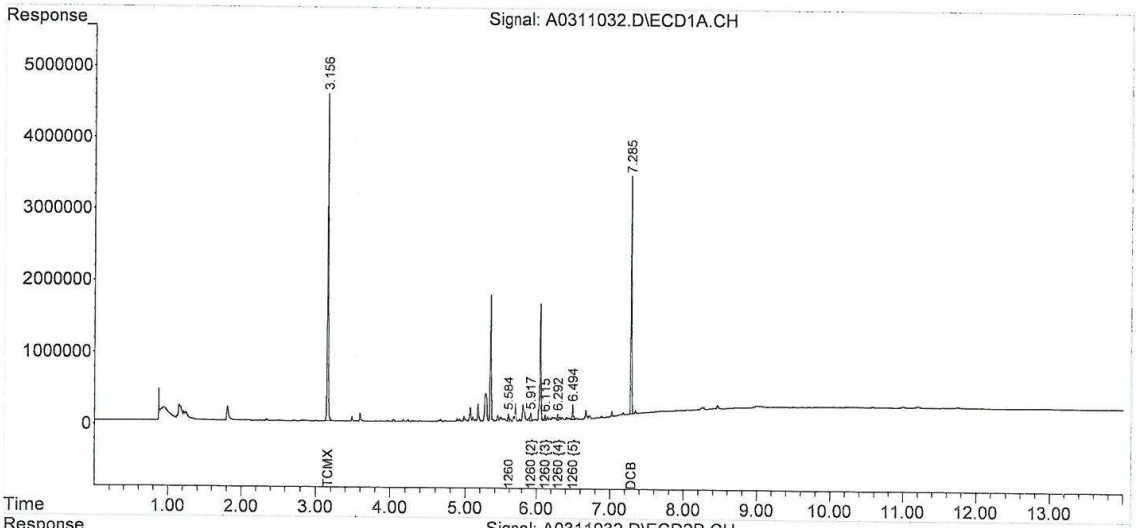


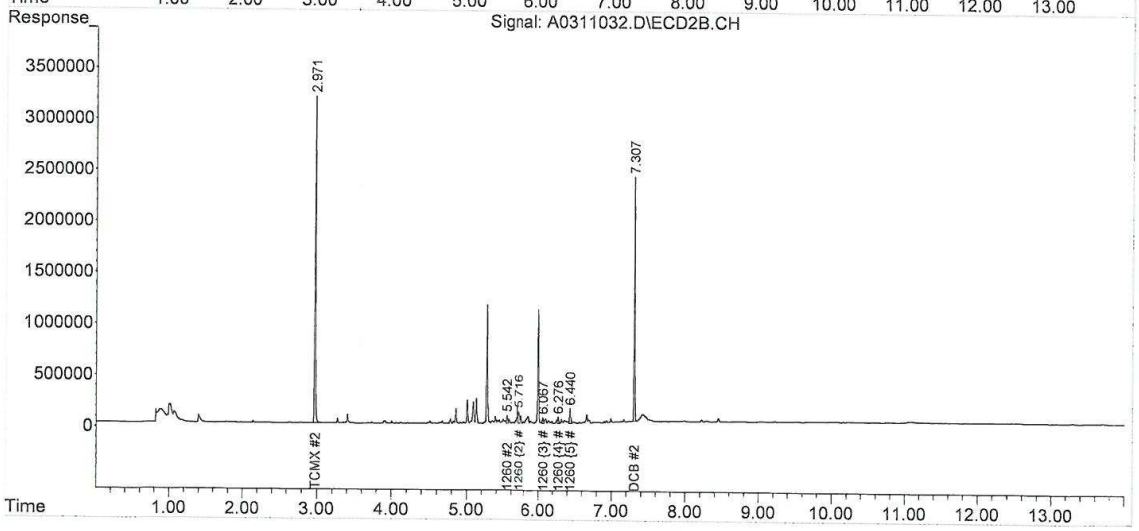
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 10:44 pm
Operator : JMB
Sample : 18C0362-15@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:50:28 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





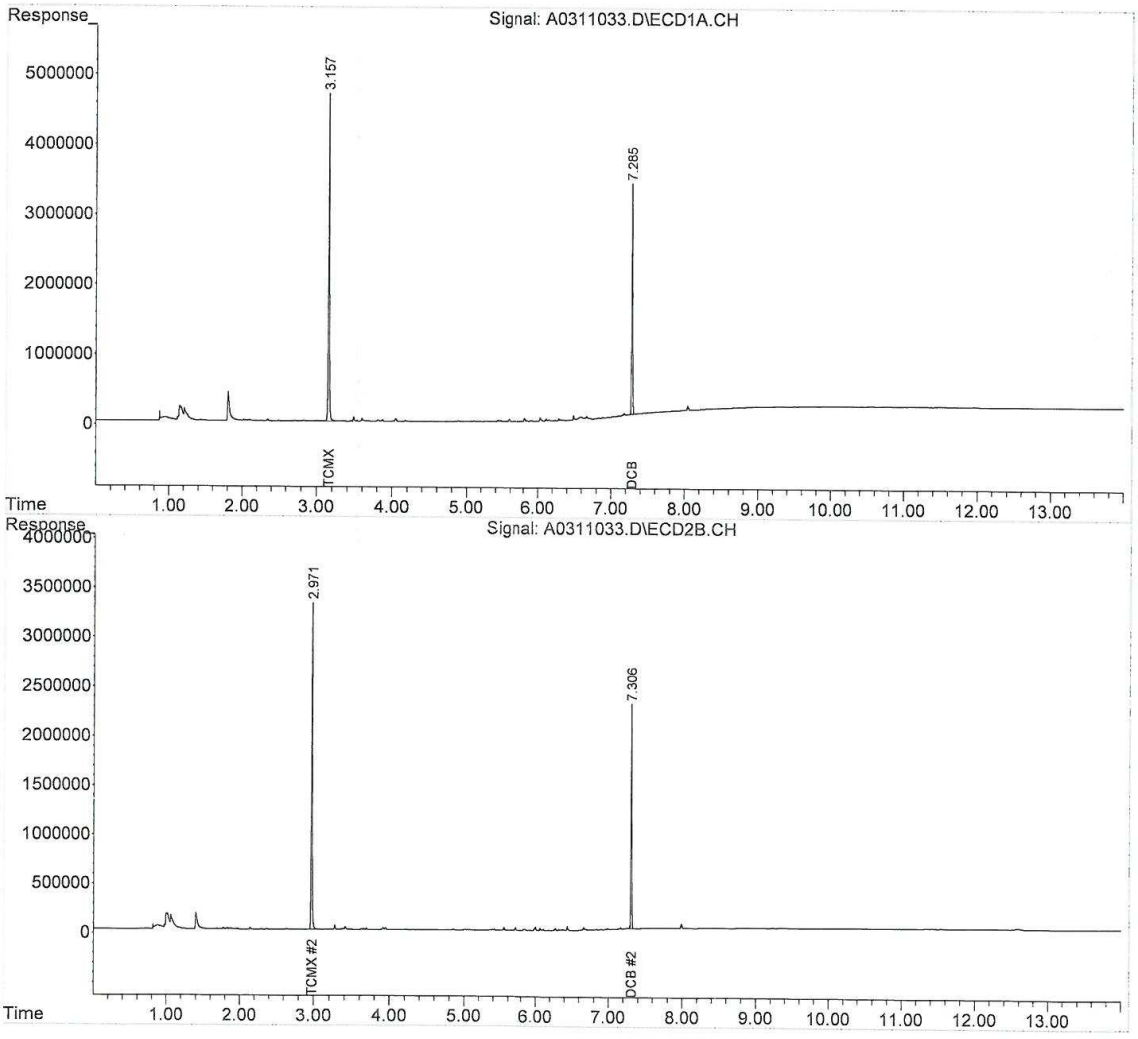
1-1260-031118.M Mon Mar 12 15:15:45 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 11:02 pm
Operator : JMB
Sample : 18C0362-16@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:51:05 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

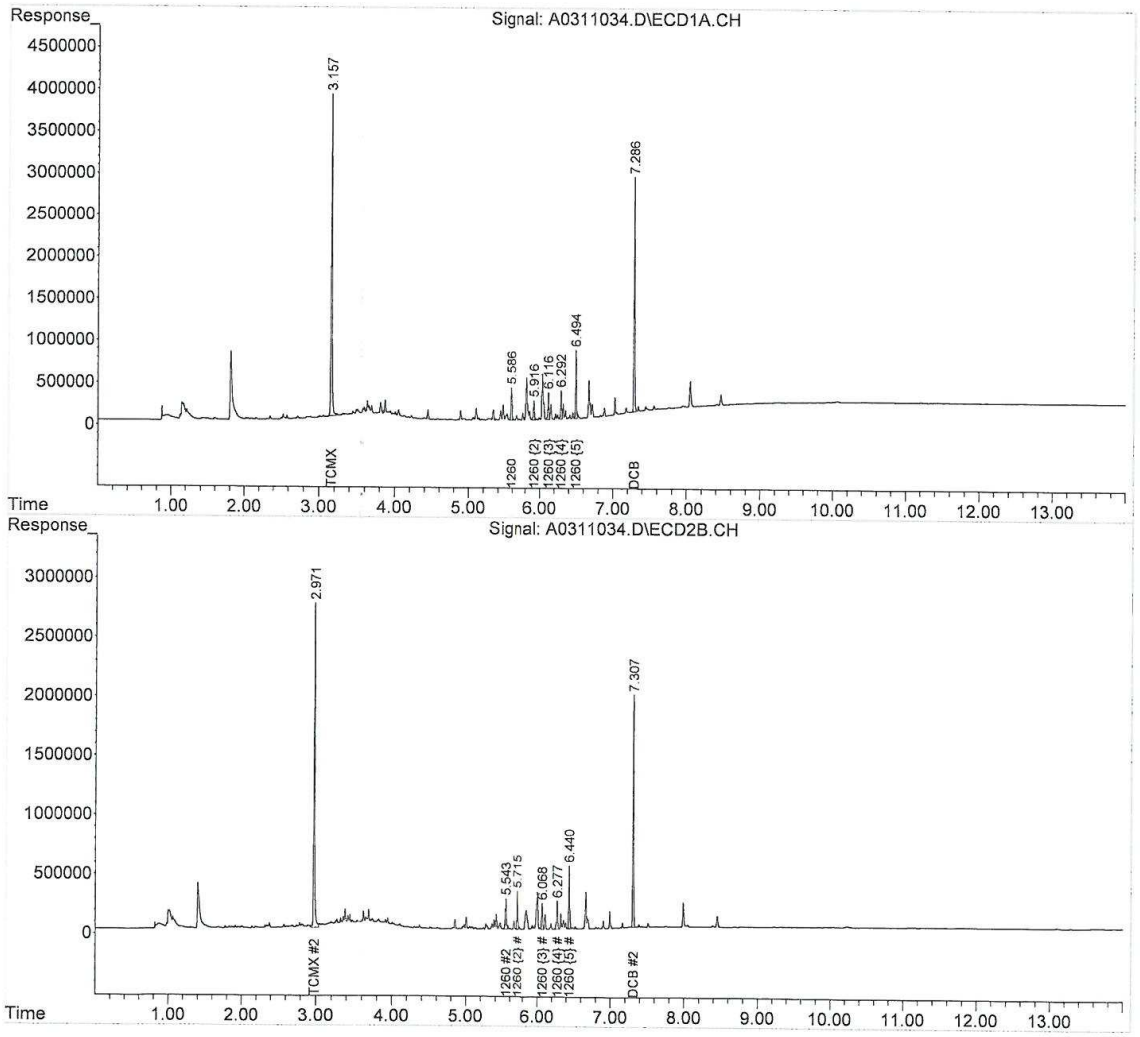


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 11:21 pm
Operator : JMB
Sample : 18C0362-17@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:52:37 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



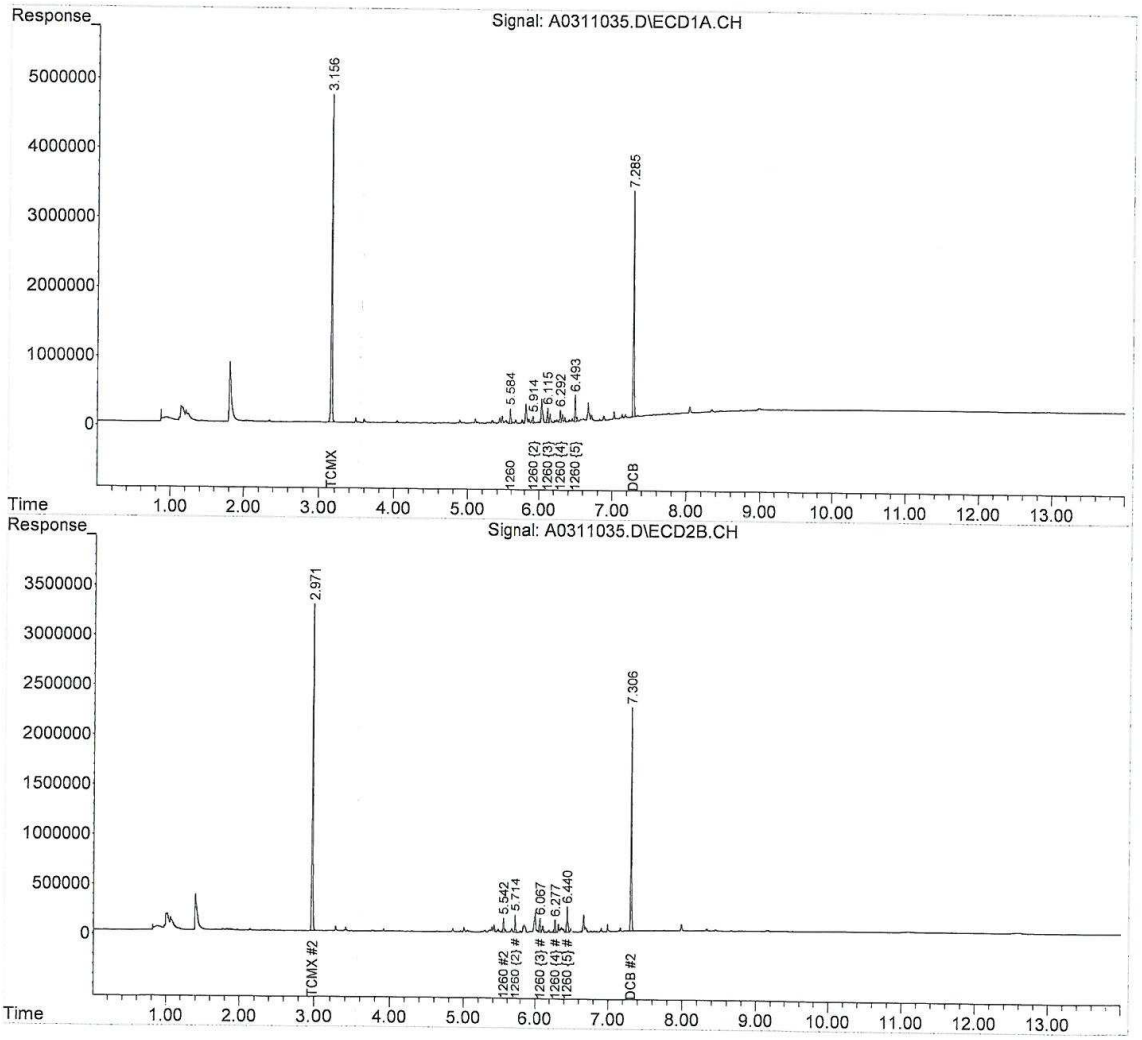
1-1260-031118.M Mon Mar 12 15:15:58 2018 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 11 Mar 2018 11:39 pm
Operator : JMB
Sample : 18C0362-18@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 10:59:48 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



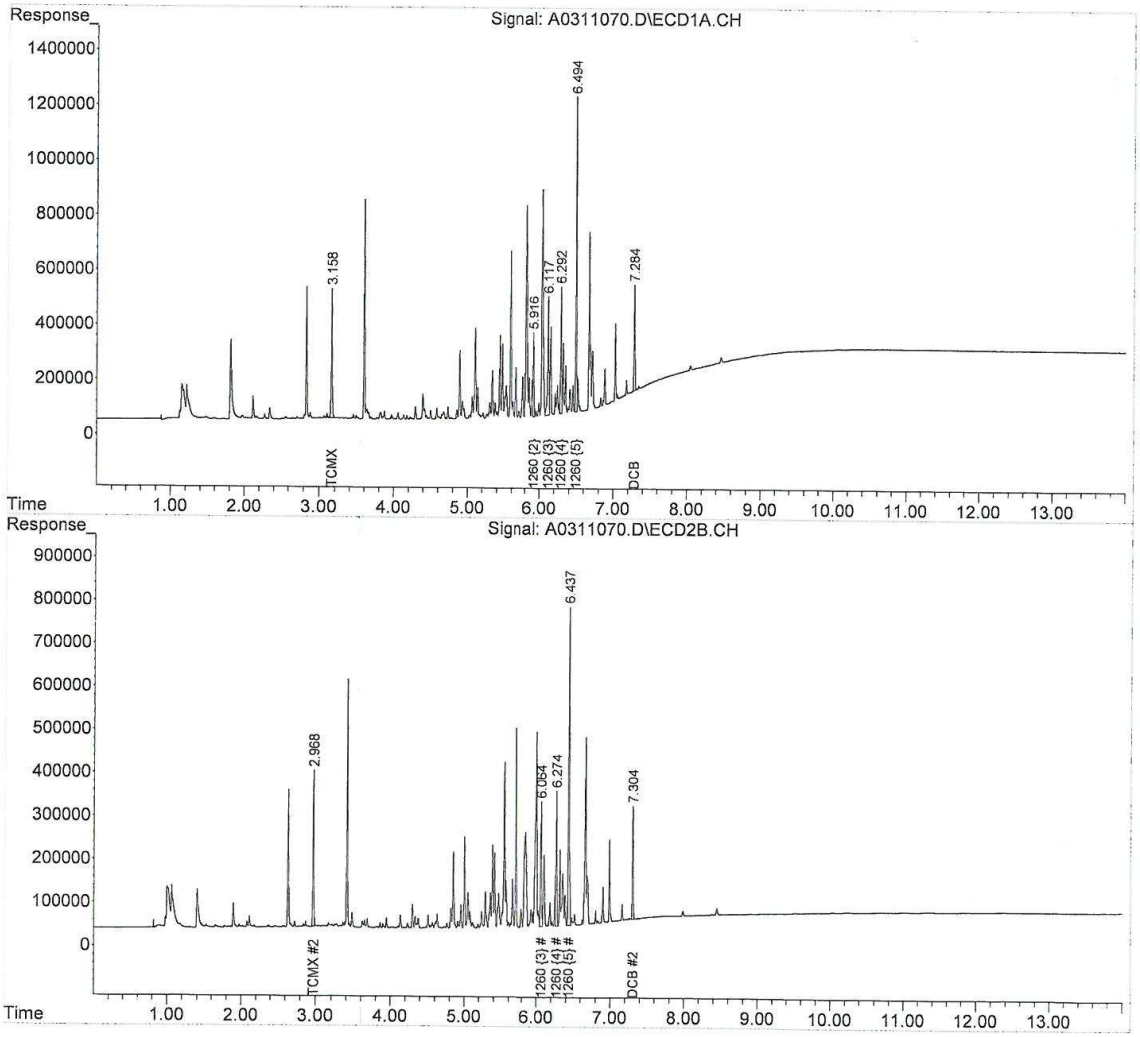
1-1260-031118.M Mon Mar 12 15:16:03 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311070.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Mar 2018 12:43 pm
Operator : JMB
Sample : 18C0362-19@40X TBA Inst : HP G1530A
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 14:10:51 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



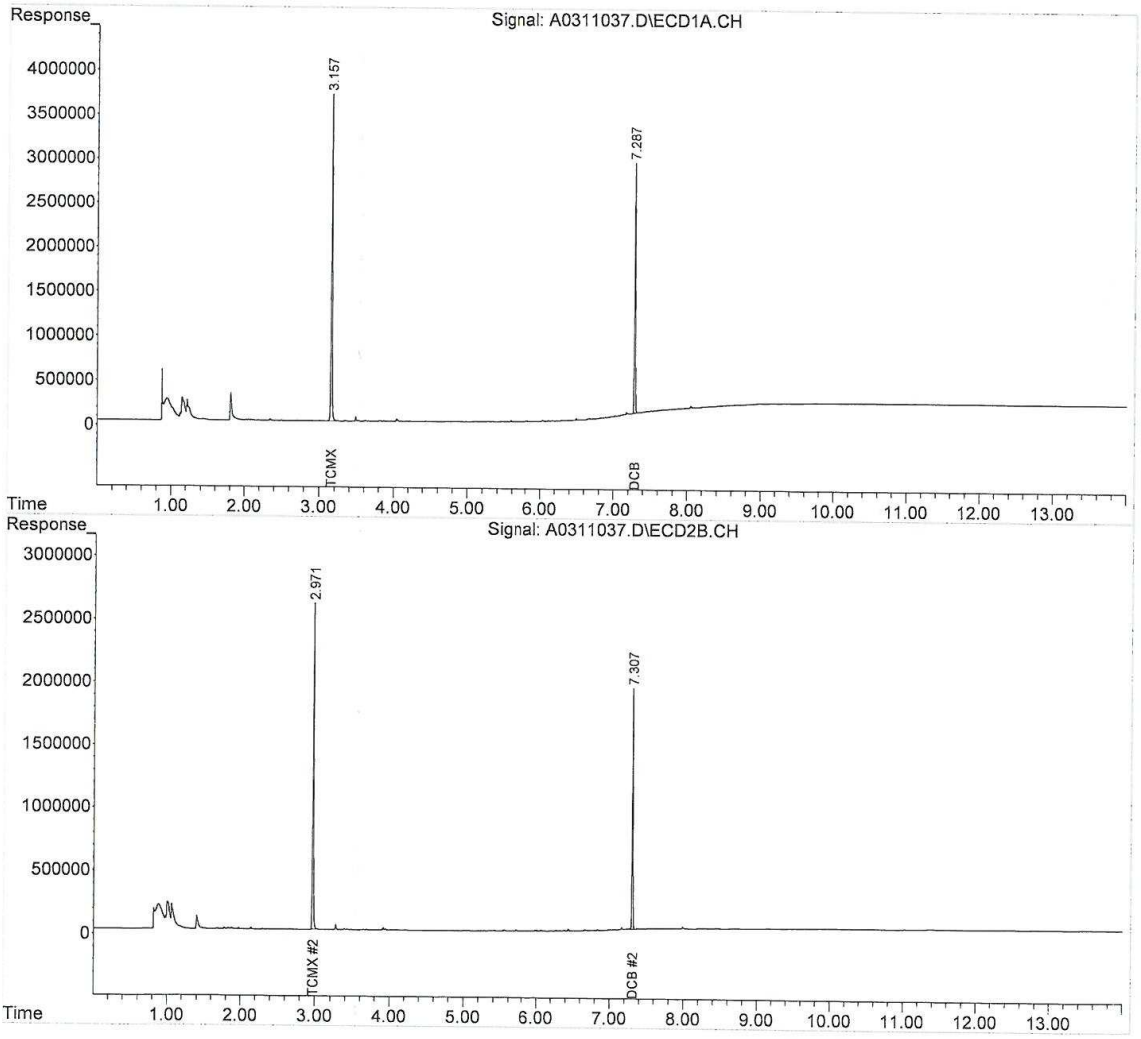
1-1260-031118.M Mon Mar 12 15:16:32 2018 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Mar 2018 12:15 am
Operator : JMB
Sample : 18C0362-20@4X TBA Inst : HP G1530A
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 11:00:29 2018
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



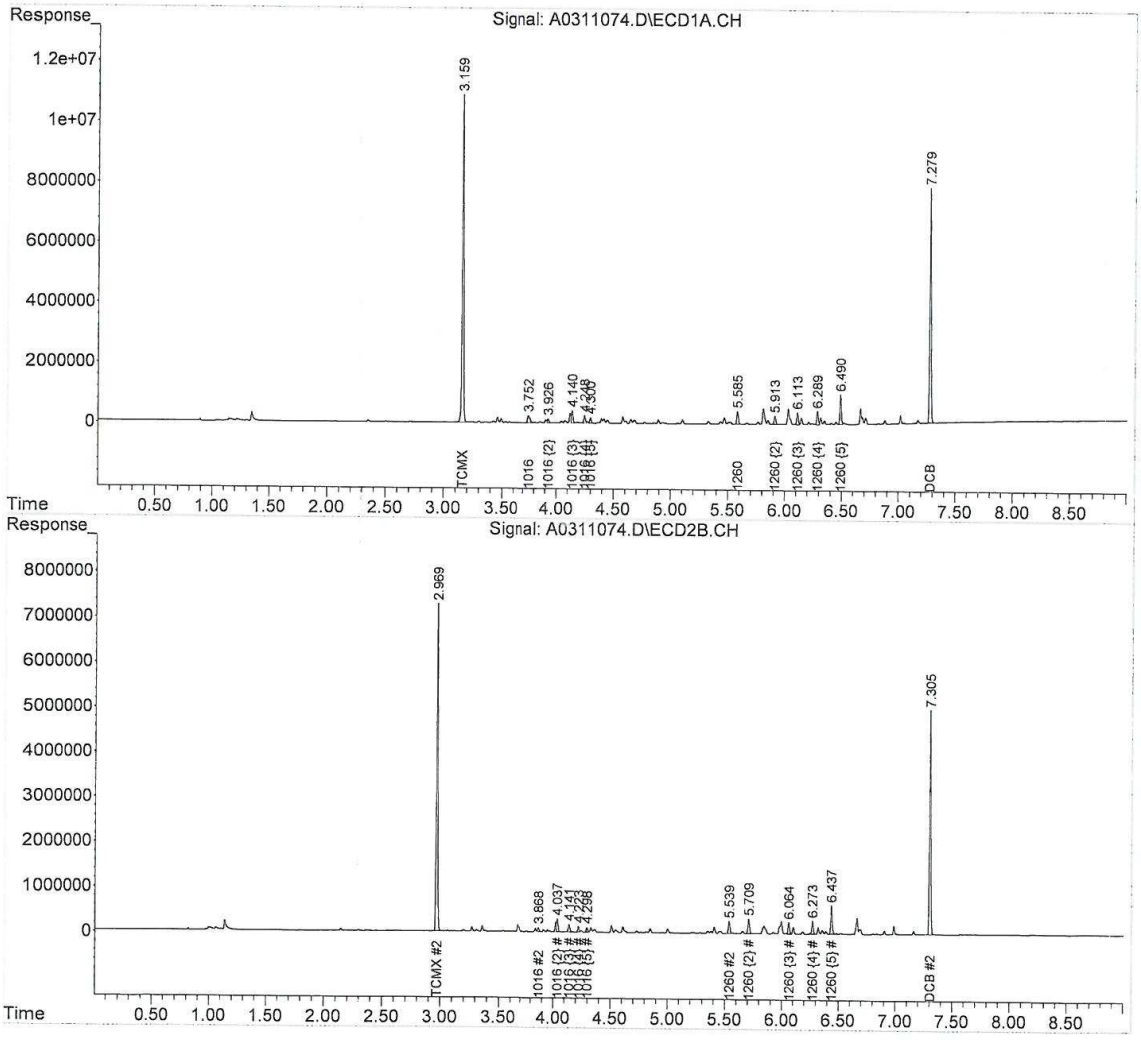
1-1260-031118.M Mon Mar 12 15:16:12 2018

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031118\
Data File : A0311074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Mar 2018 1:55 pm
Operator : JMB
Sample : 1260/1016 100 Inst : HP G1530A
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 12 14:09:52 2018
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



1-1260-031118.M Mon Mar 12 15:16:43 2018

D:\HPCHEM\1\DATA\A031218\A0312006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/12/18
Data File Name	A0312006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	550607	591141	-7
c - 10	1.57	562985	591141	-5
c - 12	2.29	577214	591141	-2
c - 14	2.96	591026	591141	0
c - 16	3.56	601369	591141	2
c - 18	4.16	603275	591141	2
o-Terphenyl	4.45	667552	591141	
c - 20	4.78	606940	591141	3
c - 22	5.29	609815	591141	3
c - 24	5.73	606592	591141	3
c - 26	6.13	606083	591141	3
c - 28	6.49	610009	591141	3
c - 30	6.82	614638	591141	4
c - 32	7.13	588689	591141	0
c - 34	7.43	571793	591141	-3
c - 36	7.74	566077	591141	-4

* One compound allowed %D </= 50%

Samples

18C0362-18@2X

D:\HPCHEM\1\DATA\A031218.SEC\A0312007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/12/18
Data File Name	A0312007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.21	534409	569060	-6
c - 10	1.55	545051	569060	-4
c - 12	2.26	555002	569060	-2
c - 14	2.92	568220	569060	0
c - 16	3.51	579553	569060	2
c - 18	4.10	583484	569060	3
o-Terphenyl	4.38	648464	569060	
c - 20	4.71	588487	569060	3
c - 22	5.22	591294	569060	4
c - 24	5.66	587219	569060	3
c - 26	6.04	582826	569060	2
c - 28	6.40	582622	569060	2
c - 30	6.73	583977	569060	3
c - 32	7.04	560484	569060	-2
c - 34	7.33	548081	569060	-4
c - 36	7.61	545190	569060	-4

* One compound allowed %D </= 50%

Samples

18B0362-14@2X

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: 18C0362

Laboratory Sample ID(s):

18C0362-01 thru 18C0362-20

Sample Date(s):

03/08/2018

List RCP Methods Used:

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

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

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

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

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

Printed Name: Lisa A. Worthington **Date:** 03/13/18

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

March 13, 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: 18C0363

Enclosed are results of analyses for samples received by the laboratory on March 8, 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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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 3/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0363

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-226A (0-0.5)	18C0363-01	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
B-226B (3-4)	18C0363-02	Soil		SM 2540G	
				SW-846 8082A	
B-227A (0-0.5)	18C0363-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
B-227B (3-4)	18C0363-04	Soil		SM 2540G	
				SW-846 8082A	
B-228A (0-0.5)	18C0363-05	Soil		SM 2540G	
				SW-846 8082A	
B-228B (3-4)	18C0363-06	Soil		SM 2540G	
				SW-846 8082A	
B-228C (7-8)	18C0363-07	Soil		SM 2540G	
				SW-846 8082A	
B-229A (0-0.5)	18C0363-08	Soil		SM 2540G	
				SW-846 8082A	
B-229B (3-4)	18C0363-09	Soil		SM 2540G	
				SW-846 8082A	
B-229C (7-8)	18C0363-10	Soil		SM 2540G	
				SW-846 8082A	
B-217C (10-12)	18C0363-11	Soil		SM 2540G	
				SW-846 8082A	
DUP-1	18C0363-12	Soil		SM 2540G	
				SW-846 8082A	
DUP-2	18C0363-13	Soil		SM 2540G	
				SW-846 8270D	
DUP-3	18C0363-14	Soil		SM 2540G	
				SW-846 8082A	
DUP-4	18C0363-15	Soil		CTDEP ETPH	
				SM 2540G	
DUP-5	18C0363-16	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	

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

REPORT DATE: 3/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0363

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
EB-030818	18C0363-17	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY
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CASE NARRATIVE SUMMARY

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

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SW-846 6010C-D

Qualifications:

DL-04

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

Analyte & Samples(s) Qualified:

Silver
18C0363-01[B-226A (0-0.5)], 18C0363-03[B-227A (0-0.5)], 18C0363-16[DUP-5]

SW-846 8270D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

4-Chloroaniline
18C0363-17[EB-030818], B198587-BLK1, B198587-BS1, B198587-BSD1

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:

4-Chloroaniline
B198559-BSD1

R-05

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

Analyte & Samples(s) Qualified:

Pyridine
18C0363-17[EB-030818], B198587-BLK1, B198587-BS1, B198587-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
18C0363-17[EB-030818]

Hexachlorobenzene
18C0363-17[EB-030818]

Pentachlorophenol
18C0363-17[EB-030818]

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
18C0363-13[DUP-2], 18C0363-17[EB-030818], B198559-BLK1, B198559-BS1, B198559-BSD1, B198587-BLK1, B198587-BS1, B198587-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
B198559-BLK1, B198559-BS1, B198559-BSD1

3-Nitroaniline
18C0363-17[EB-030818], B198587-BLK1, B198587-BS1, B198587-BSD1

4-Chloroaniline
18C0363-17[EB-030818], B198559-BLK1, B198559-BS1, B198559-BSD1, B198587-BLK1, B198587-BS1, B198587-BSD1

Aniline
18C0363-17[EB-030818], B198559-BLK1, B198559-BS1, B198559-BSD1, B198587-BLK1, B198587-BS1, B198587-BSD1

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V-35

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

Analyte & Samples(s) Qualified:

N-Nitrosodiphenylamine
B198559-BLK1, B198559-BS1, B198559-BSD1

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

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

SW-846 8270D

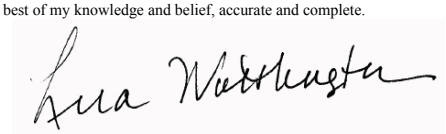
The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and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

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

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

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

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



Lisa A. Worthington
Project Manager

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

Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-226A (0-0.5) | Sampled: 3/8/2018 12:05

Sample ID: 18C0363-01

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	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1260 [2]	0.12	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 12:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
Decachlorobiphenyl [1]	94.4	30-150					3/12/18 12:51
Decachlorobiphenyl [2]	106	30-150					3/12/18 12:51
Tetrachloro-m-xylene [1]	77.9	30-150					3/12/18 12:51
Tetrachloro-m-xylene [2]	80.1	30-150					3/12/18 12:51

con-test® ANALYTICAL LABORATORY
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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-226A (0-0.5) Sampled: 3/8/2018 12:05

Sample ID: 18C0363-01

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	3/9/18	3/12/18 17:28	QNW
Arsenic	3.2	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Barium	120	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Beryllium	0.43	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Cadmium	0.26	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Chromium	16	0.37	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Copper	34	0.37	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Lead	19	0.56	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	3/9/18	3/12/18 10:11	EJB
Nickel	15	0.37	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Silver	ND	0.75	mg/Kg dry	2	DL-04	SW-846 6010C-D	3/9/18	3/13/18 12:11	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Vanadium	32	0.75	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW
Zinc	45	0.75	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:28	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-226A (0-0.5) | Sampled: 3/8/2018 12:05

Sample ID: 18C0363-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:51	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-226B (3-4) | Sampled: 3/8/2018 12:10

Sample ID: 18C0363-02

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	3/9/18	3/12/18 13:03	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		3/12/18 13:03
Decachlorobiphenyl [2]	140	30-150		3/12/18 13:03
Tetrachloro-m-xylene [1]	61.6	30-150		3/12/18 13:03
Tetrachloro-m-xylene [2]	63.3	30-150		3/12/18 13:03

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-226B (3-4) | Sampled: 3/8/2018 12:10

Sample ID: 18C0363-02

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	3/8/18	3/9/18 10:51	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-227A (0-0.5) | Sampled: 3/8/2018 12:20

Sample ID: 18C0363-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1260 [2]	0.17	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		3/12/18 13:16
Decachlorobiphenyl [2]	100	30-150		3/12/18 13:16
Tetrachloro-m-xylene [1]	76.7	30-150		3/12/18 13:16
Tetrachloro-m-xylene [2]	80.3	30-150		3/12/18 13:16

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Project Location: 107 Seldon St., Berlin, CT Sample Description: Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-227A (0-0.5) Sampled: 3/8/2018 12:20

Sample ID: 18C0363-03

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	3/9/18	3/12/18 17:33	QNW
Arsenic	2.4	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Barium	93	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Beryllium	0.69	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Cadmium	0.24	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Chromium	15	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Copper	26	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Lead	20	0.58	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	3/9/18	3/12/18 10:13	EJB
Nickel	21	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Silver	ND	0.78	mg/Kg dry	2	DL-04	SW-846 6010C-D	3/9/18	3/13/18 12:16	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Vanadium	33	0.78	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	QNW
Zinc	58	0.78	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:33	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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-227A (0-0.5) | Sampled: 3/8/2018 12:20

Sample ID: 18C0363-03

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	84.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:51	MJR

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-227B (3-4) | Sampled: 3/8/2018 12:25

Sample ID: 18C0363-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		3/12/18 13:28
Decachlorobiphenyl [2]	88.7	30-150		3/12/18 13:28
Tetrachloro-m-xylene [1]	70.5	30-150		3/12/18 13:28
Tetrachloro-m-xylene [2]	73.2	30-150		3/12/18 13:28

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-227B (3-4) | Sampled: 3/8/2018 12:25

Sample ID: 18C0363-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228A (0-0.5) | Sampled: 3/8/2018 12:30

Sample ID: 18C0363-05

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	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1254 [2]	0.10	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1260 [2]	0.63	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.0	30-150		3/12/18 13:40
Decachlorobiphenyl [2]	109	30-150		3/12/18 13:40
Tetrachloro-m-xylene [1]	80.5	30-150		3/12/18 13:40
Tetrachloro-m-xylene [2]	81.4	30-150		3/12/18 13:40

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228A (0-0.5) | Sampled: 3/8/2018 12:30

Sample ID: 18C0363-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228B (3-4) | Sampled: 3/8/2018 12:35

Sample ID: 18C0363-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 13:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		3/12/18 13:52
Decachlorobiphenyl [2]	97.5	30-150		3/12/18 13:52
Tetrachloro-m-xylene [1]	73.3	30-150		3/12/18 13:52
Tetrachloro-m-xylene [2]	75.4	30-150		3/12/18 13:52

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228B (3-4) | Sampled: 3/8/2018 12:35

Sample ID: 18C0363-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228C (7-8) | Sampled: 3/8/2018 12:40

Sample ID: 18C0363-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		3/12/18 14:41
Decachlorobiphenyl [2]	89.4	30-150		3/12/18 14:41
Tetrachloro-m-xylene [1]	70.8	30-150		3/12/18 14:41
Tetrachloro-m-xylene [2]	75.0	30-150		3/12/18 14:41

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-228C (7-8) | Sampled: 3/8/2018 12:40

Sample ID: 18C0363-07

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	74.5		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229A (0-0.5) | Sampled: 3/8/2018 12:45

Sample ID: 18C0363-08

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	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1260 [2]	0.47	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 14:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		3/12/18 14:53
Decachlorobiphenyl [2]	104	30-150		3/12/18 14:53
Tetrachloro-m-xylene [1]	80.3	30-150		3/12/18 14:53
Tetrachloro-m-xylene [2]	83.0	30-150		3/12/18 14:53

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229A (0-0.5) | Sampled: 3/8/2018 12:45

Sample ID: 18C0363-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229B (3-4) | Sampled: 3/8/2018 12:50

Sample ID: 18C0363-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.7	30-150		3/12/18 15:05
Decachlorobiphenyl [2]	101	30-150		3/12/18 15:05
Tetrachloro-m-xylene [1]	77.9	30-150		3/12/18 15:05
Tetrachloro-m-xylene [2]	80.6	30-150		3/12/18 15:05

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229B (3-4) | Sampled: 3/8/2018 12:50

Sample ID: 18C0363-09

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	85.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229C (7-8) | Sampled: 3/8/2018 12:55

Sample ID: 18C0363-10

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	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		3/12/18 15:30
Decachlorobiphenyl [2]	101	30-150		3/12/18 15:30
Tetrachloro-m-xylene [1]	77.5	30-150		3/12/18 15:30
Tetrachloro-m-xylene [2]	80.3	30-150		3/12/18 15:30

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-229C (7-8) | Sampled: 3/8/2018 12:55

Sample ID: 18C0363-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	3/8/18	3/9/18 10:52	MJR

con-test® ANALYTICAL LABORATORY
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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: B-217C (10-12) | Sampled: 3/8/2018 09:10

Sample ID: 18C0363-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.2	30-150		3/12/18 15:42
Decachlorobiphenyl [2]	97.6	30-150		3/12/18 15:42
Tetrachloro-m-xylene [1]	77.1	30-150		3/12/18 15:42
Tetrachloro-m-xylene [2]	78.9	30-150		3/12/18 15:42

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: B-217C (10-12) | Sampled: 3/8/2018 09:10

Sample ID: 18C0363-11

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	85.8		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-1 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-12

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	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	3/9/18	3/12/18 15:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		3/12/18 15:54
Decachlorobiphenyl [2]	90.5	30-150		3/12/18 15:54
Tetrachloro-m-xylene [1]	75.2	30-150		3/12/18 15:54
Tetrachloro-m-xylene [2]	77.0	30-150		3/12/18 15:54

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Project Location: 107 Seldon St., Berlin, CT
Sample Description:
Work Order: 18C0363
Date Received: 3/8/2018
Field Sample #: DUP-1
Sampled: 3/8/2018 00:00
Sample ID: 18C0363-12
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	86.7		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-2 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-13

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	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Benzo(a)anthracene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Benzo(b)fluoranthene	0.36	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Benzo(g,h,i)perylene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Chrysene	0.28	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Fluoranthene	0.55	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Indeno(1,2,3-cd)pyrene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-2 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-13

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	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Phenanthrene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Pyrene	0.50	0.20	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	3/9/18	3/12/18 10:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.7	30-130		3/12/18 10:48
Phenol-d6	55.1	30-130		3/12/18 10:48
Nitrobenzene-d5	76.9	30-130		3/12/18 10:48
2-Fluorobiphenyl	72.8	30-130		3/12/18 10:48
2,4,6-Tribromophenol	72.8	30-130		3/12/18 10:48
p-Terphenyl-d14	73.1	30-130		3/12/18 10:48

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-2 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-13

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	85.6		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-3 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-14

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	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1254 [1]	0.43	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1260 [1]	1.2	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	3/11/18	3/12/18 19:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		3/12/18 19:03
Decachlorobiphenyl [2]	81.8	30-150		3/12/18 19:03
Tetrachloro-m-xylene [1]	96.2	30-150		3/12/18 19:03
Tetrachloro-m-xylene [2]	88.1	30-150		3/12/18 19:03

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-3 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-4 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	350	230	mg/Kg dry	20		CTDEP ETPH	3/9/18	3/11/18 21:07	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.7	50-150		3/11/18 21:07

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-4 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-15

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	87.1		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-5 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-16

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	3/9/18	3/12/18 17:37	QNW
Arsenic	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Barium	60	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Chromium	14	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Copper	42	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Lead	11	0.58	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	3/9/18	3/12/18 10:15	EJB
Nickel	16	0.39	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Silver	ND	0.77	mg/Kg dry	2	DL-04	SW-846 6010C-D	3/9/18	3/13/18 12:22	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Vanadium	34	0.77	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW
Zinc	51	0.77	mg/Kg dry	1		SW-846 6010C-D	3/9/18	3/12/18 17:37	QNW

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: DUP-5 | Sampled: 3/8/2018 00:00

Sample ID: 18C0363-16

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	83.0		% Wt	1		SM 2540G	3/8/18	3/9/18 10:53	MJR

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: 18C0363

Date Received: 3/8/2018

Field Sample #: EB-030818 | Sampled: 3/8/2018 13:40

Sample ID: 18C0363-17

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Aniline	ND	5.0	µg/L	1	V-34	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Chloroaniline	ND	10	µg/L	1	L-04, V-34	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: EB-030818 | Sampled: 3/8/2018 13:40

Sample ID: 18C0363-17

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:53	CJM
Pyridine	ND	5.0	µg/L	1	R-05	SW-846 8270D	3/11/18	3/13/18 10:33	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	3/11/18	3/13/18 10:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	35.7	15-110		3/13/18 10:33
Phenol-d6	24.9	15-110		3/13/18 10:33
Nitrobenzene-d5	65.2	30-130		3/13/18 10:33
Nitrobenzene-d5	72.4	30-130		3/13/18 10:53
2-Fluorobiphenyl	74.9	30-130		3/13/18 10:53
2-Fluorobiphenyl	61.6	30-130		3/13/18 10:33
2,4,6-Tribromophenol	76.0	15-110		3/13/18 10:33
p-Terphenyl-d14	78.1	30-130		3/13/18 10:53
p-Terphenyl-d14	87.1	30-130		3/13/18 10:33

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: EB-030818 | Sampled: 3/8/2018 13:40

Sample ID: 18C0363-17

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/11/18	3/13/18 11:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	35.1	30-150		3/13/18 11:14
Decachlorobiphenyl [2]	33.9	30-150		3/13/18 11:14
Tetrachloro-m-xylene [1]	78.1	30-150		3/13/18 11:14
Tetrachloro-m-xylene [2]	77.0	30-150		3/13/18 11:14

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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: 18C0363

Date Received: 3/8/2018

Field Sample #: EB-030818 | Sampled: 3/8/2018 13:40

Sample ID: 18C0363-17

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	3/9/18	3/12/18 2:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	81.2	50-150					3/12/18 2:10	

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Project Location: 107 Seldon St., Berlin, CT | Sample Description: | Work Order: 18C0363

Date Received: 3/8/2018

Field Sample #: EB-030818 | Sampled: 3/8/2018 13:40

Sample ID: 18C0363-17

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	3/9/18	3/9/18 15:28	EJB
Nickel	ND	25	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	3/9/18	3/9/18 13:53	WSD

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
18C0363-15 [DUP-4]	B198557	30.0	1.00	03/09/18

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198500	1000	1.00	03/09/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18C0363-01 [B-226A (0-0.5)]	B198492	03/08/18
18C0363-02 [B-226B (3-4)]	B198492	03/08/18
18C0363-03 [B-227A (0-0.5)]	B198492	03/08/18
18C0363-04 [B-227B (3-4)]	B198492	03/08/18
18C0363-05 [B-228A (0-0.5)]	B198492	03/08/18
18C0363-06 [B-228B (3-4)]	B198492	03/08/18
18C0363-07 [B-228C (7-8)]	B198492	03/08/18
18C0363-08 [B-229A (0-0.5)]	B198492	03/08/18
18C0363-09 [B-229B (3-4)]	B198492	03/08/18
18C0363-10 [B-229C (7-8)]	B198492	03/08/18
18C0363-11 [B-217C (10-12)]	B198492	03/08/18
18C0363-12 [DUP-1]	B198492	03/08/18
18C0363-13 [DUP-2]	B198492	03/08/18
18C0363-14 [DUP-3]	B198492	03/08/18
18C0363-15 [DUP-4]	B198492	03/08/18
18C0363-16 [DUP-5]	B198492	03/08/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0363-01 [B-226A (0-0.5)]	B198516	1.54	50.0	03/09/18
18C0363-03 [B-227A (0-0.5)]	B198516	1.51	50.0	03/09/18
18C0363-16 [DUP-5]	B198516	1.56	50.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198518	50.0	50.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198521	6.00	6.00	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0363-01 [B-226A (0-0.5)]	B198517	0.580	50.0	03/09/18
18C0363-03 [B-227A (0-0.5)]	B198517	0.587	50.0	03/09/18
18C0363-16 [DUP-5]	B198517	0.581	50.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0363-01 [B-226A (0-0.5)]	B198502	10.0	10.0	03/09/18
18C0363-02 [B-226B (3-4)]	B198502	10.0	10.0	03/09/18
18C0363-03 [B-227A (0-0.5)]	B198502	10.0	10.0	03/09/18
18C0363-04 [B-227B (3-4)]	B198502	10.0	10.0	03/09/18
18C0363-05 [B-228A (0-0.5)]	B198502	10.0	10.0	03/09/18
18C0363-06 [B-228B (3-4)]	B198502	10.0	10.0	03/09/18
18C0363-07 [B-228C (7-8)]	B198502	10.0	10.0	03/09/18
18C0363-08 [B-229A (0-0.5)]	B198502	10.0	10.0	03/09/18
18C0363-09 [B-229B (3-4)]	B198502	10.0	10.0	03/09/18
18C0363-10 [B-229C (7-8)]	B198502	10.0	10.0	03/09/18
18C0363-11 [B-217C (10-12)]	B198502	10.0	10.0	03/09/18
18C0363-12 [DUP-1]	B198502	10.0	10.0	03/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0363-14 [DUP-3]	B198596	10.7	10.0	03/11/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198592	1010	10.0	03/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0363-13 [DUP-2]	B198559	30.2	1.00	03/09/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198587	1000	1.00	03/11/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18C0363-17 [EB-030818]	B198717	1000	1.00	03/11/18

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198559 - SW-846 3546										
Blank (B198559-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-34
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							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							
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 B198559 - SW-846 3546											
Blank (B198559-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							V-35	
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	*3.71*		mg/Kg wet	6.67		55.6	30-130				
Surrogate: Phenol-d6	*3.75*		mg/Kg wet	6.67		56.2	30-130				
Surrogate: Nitrobenzene-d5	*2.55*		mg/Kg wet	3.33		76.6	30-130				
Surrogate: 2-Fluorobiphenyl	*2.24*		mg/Kg wet	3.33		67.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.60*		mg/Kg wet	6.67		68.9	30-130				
Surrogate: p-Terphenyl-d14	*2.26*		mg/Kg wet	3.33		67.9	30-130				
LCS (B198559-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18							
Acenaphthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140				
Acenaphthylene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140				
Aniline	0.676	0.34	mg/Kg wet	1.67		40.6	40-140			V-34	†
Anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140				
Benzo(a)anthracene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140				
Benzo(a)pyrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140				
Benzo(b)fluoranthene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140				
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140				
Benzo(k)fluoranthene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140				
Bis(2-chloroethoxy)methane	1.06	0.34	mg/Kg wet	1.67		63.3	40-140				
Bis(2-chloroethyl)ether	0.829	0.34	mg/Kg wet	1.67		49.8	40-140				
Bis(2-chloroisopropyl)ether	0.941	0.34	mg/Kg wet	1.67		56.5	40-140				
Bis(2-Ethylhexyl)phthalate	1.23	0.34	mg/Kg wet	1.67		73.6	40-140				
4-Bromophenylphenylether	1.01	0.34	mg/Kg wet	1.67		60.7	40-140				
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4	40-140				
Carbazole	0.961	0.17	mg/Kg wet	1.67		57.6	40-140				
4-Chloroaniline	0.744	0.66	mg/Kg wet	1.67		44.6	40-140			V-34	†
4-Chloro-3-methylphenol	1.13	0.66	mg/Kg wet	1.67		67.7	30-130				
2-Chloronaphthalene	0.872	0.34	mg/Kg wet	1.67		52.3	40-140				
2-Chlorophenol	0.768	0.34	mg/Kg wet	1.67		46.1	30-130				
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.0	40-140				
Chrysene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140				
Dibenz(a,h)anthracene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140				
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		65.9	40-140				
Di-n-butylphthalate	1.10	0.34	mg/Kg wet	1.67		66.1	40-140				
3,3-Dichlorobenzidine	0.827	0.17	mg/Kg wet	1.67		49.6	40-140			V-34	†
2,4-Dichlorophenol	0.891	0.34	mg/Kg wet	1.67		53.5	30-130				
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9	40-140				
2,4-Dimethylphenol	0.981	0.34	mg/Kg wet	1.67		58.9	30-130				
Dimethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.3	40-140				
4,6-Dinitro-2-methylphenol	0.754	0.34	mg/Kg wet	1.67		45.2	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B198559 - SW-846 3546											
LCS (B198559-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18							
2,4-Dinitrophenol	0.604	0.66	mg/Kg wet	1.67		36.2	30-130				
2,4-Dinitrotoluene	0.986	0.34	mg/Kg wet	1.67		59.1	40-140				
2,6-Dinitrotoluene	1.02	0.34	mg/Kg wet	1.67		61.1	40-140				
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		71.8	40-140				
Fluoranthene	0.949	0.17	mg/Kg wet	1.67		57.0	40-140				
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140				
Hexachlorobenzene	0.908	0.34	mg/Kg wet	1.67		54.5	40-140				
Hexachlorobutadiene	0.966	0.34	mg/Kg wet	1.67		57.9	40-140				
Hexachlorocyclopentadiene	0.815	0.34	mg/Kg wet	1.67		48.9	30-140				
Hexachloroethane	0.813	0.34	mg/Kg wet	1.67		48.8	40-140				
Indeno(1,2,3-cd)pyrene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140				
Isophorone	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				
2-Methylnaphthalene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140				
2-Methylphenol	0.853	0.34	mg/Kg wet	1.67		51.2	30-130				
3/4-Methylphenol	0.939	0.34	mg/Kg wet	1.67		56.3	30-130				
Naphthalene	0.841	0.17	mg/Kg wet	1.67		50.5	40-140				
2-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		78.9	40-140				
3-Nitroaniline	0.904	0.34	mg/Kg wet	1.67		54.3	40-140				†
4-Nitroaniline	0.989	0.34	mg/Kg wet	1.67		59.3	40-140				
Nitrobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140				
2-Nitrophenol	0.839	0.34	mg/Kg wet	1.67		50.3	30-130				
4-Nitrophenol	1.23	0.66	mg/Kg wet	1.67		73.8	10-130				
N-Nitrosodiphenylamine	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			V-35	
N-Nitrosodi-n-propylamine	0.982	0.34	mg/Kg wet	1.67		58.9	40-140				
Pentachloronitrobenzene	0.954	0.34	mg/Kg wet	1.67		57.2	40-140			V-16	
Pentachlorophenol	0.815	0.34	mg/Kg wet	1.67		48.9	30-130				
Phenanthrene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140				
Phenol	0.785	0.34	mg/Kg wet	1.67		47.1	20-130				
Pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140				
Pyridine	0.491	0.34	mg/Kg wet	1.67		29.4	10-140				†
1,2,4,5-Tetrachlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140				
1,2,4-Trichlorobenzene	0.855	0.34	mg/Kg wet	1.67		51.3	40-140				
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130				
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.1	30-130				
Surrogate: 2-Fluorophenol	*3.23*		mg/Kg wet	6.67		48.4	30-130				
Surrogate: Phenol-d6	*3.44*		mg/Kg wet	6.67		51.6	30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		68.9	30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.74*		mg/Kg wet	6.67		71.1	30-130				
Surrogate: p-Terphenyl-d14	*2.20*		mg/Kg wet	3.33		66.1	30-130				
LCS Dup (B198559-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18							
Acenaphthene	0.973	0.17	mg/Kg wet	1.67		58.4	40-140	0.998	30		
Acenaphthylene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	0.873	30		
Aniline	0.686	0.34	mg/Kg wet	1.67		41.2	40-140	1.52	50	V-34	† ‡
Anthracene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140	3.43	30		
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	3.11	30		
Benzo(a)pyrene	0.989	0.17	mg/Kg wet	1.67		59.4	40-140	2.30	30		
Benzo(b)fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.0	40-140	3.70	30		
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.73	30		
Benzo(k)fluoranthene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	0.906	30		
Bis(2-chloroethoxy)methane	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	6.77	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 B198559 - SW-846 3546												
LCS Dup (B198559-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18								
Bis(2-chloroethyl)ether	0.938	0.34	mg/Kg wet	1.67		56.3		40-140	12.3	30		
Bis(2-chloroisopropyl)ether	1.05	0.34	mg/Kg wet	1.67		62.8		40-140	10.6	30		
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.67		70.2		40-140	4.65	30		
4-Bromophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.2		40-140	5.57	30		
Butylbenzylphthalate	1.17	0.34	mg/Kg wet	1.67		69.9		40-140	2.12	30		
Carbazole	0.959	0.17	mg/Kg wet	1.67		57.6		40-140	0.139	30		
4-Chloroaniline	0.656	0.66	mg/Kg wet	1.67		**39.4**	*	40-140	12.5	30	L-07, V-34	†
4-Chloro-3-methylphenol	1.13	0.66	mg/Kg wet	1.67		67.7		30-130	0.0295	30		
2-Chloronaphthalene	0.816	0.34	mg/Kg wet	1.67		48.9		40-140	6.68	30		
2-Chlorophenol	0.878	0.34	mg/Kg wet	1.67		52.7		30-130	13.4	30		
4-Chlorophenylphenylether	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	3.43	30		
Chrysene	0.980	0.17	mg/Kg wet	1.67		58.8		40-140	0.407	30		
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.7		40-140	9.98	30		
Dibenzofuran	1.08	0.34	mg/Kg wet	1.67		64.8		40-140	1.62	30		
Di-n-butylphthalate	1.11	0.34	mg/Kg wet	1.67		66.5		40-140	0.633	30		
3,3-Dichlorobenzidine	0.694	0.17	mg/Kg wet	1.67		41.7		40-140	17.4	30	V-34	† ‡
2,4-Dichlorophenol	0.959	0.34	mg/Kg wet	1.67		57.5		30-130	7.35	30		
Diethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	3.65	30		
2,4-Dimethylphenol	0.928	0.34	mg/Kg wet	1.67		55.7		30-130	5.55	30		
Dimethylphthalate	1.05	0.34	mg/Kg wet	1.67		63.2		40-140	0.0948	50		
4,6-Dinitro-2-methylphenol	0.773	0.34	mg/Kg wet	1.67		46.4		30-130	2.58	50		
2,4-Dinitrophenol	0.574	0.66	mg/Kg wet	1.67		34.4		30-130	5.10	50		
2,4-Dinitrotoluene	0.942	0.34	mg/Kg wet	1.67		56.5		40-140	4.53	30		
2,6-Dinitrotoluene	1.01	0.34	mg/Kg wet	1.67		60.6		40-140	0.920	30		
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.9		40-140	2.71	30		
Fluoranthene	0.954	0.17	mg/Kg wet	1.67		57.2		40-140	0.490	30		
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.0		40-140	1.78	30		
Hexachlorobenzene	0.978	0.34	mg/Kg wet	1.67		58.7		40-140	7.49	30		
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.67		64.6		40-140	10.9	30		
Hexachlorocyclopentadiene	0.858	0.34	mg/Kg wet	1.67		51.5		30-140	5.14	50		
Hexachloroethane	0.947	0.34	mg/Kg wet	1.67		56.8		40-140	15.2	50		
Indeno(1,2,3-cd)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140	7.13	50		
Isophorone	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	6.04	30		
2-Methylnaphthalene	0.969	0.17	mg/Kg wet	1.67		58.2		40-140	4.39	30		
2-Methylphenol	0.938	0.34	mg/Kg wet	1.67		56.3		30-130	9.49	30		
3/4-Methylphenol	0.987	0.34	mg/Kg wet	1.67		59.2		30-130	5.02	30		
Naphthalene	0.906	0.17	mg/Kg wet	1.67		54.3		40-140	7.40	30		
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		75.1		40-140	4.91	30		
3-Nitroaniline	0.823	0.34	mg/Kg wet	1.67		49.4		40-140	9.38	30		†
4-Nitroaniline	0.952	0.34	mg/Kg wet	1.67		57.1		40-140	3.81	30		
Nitrobenzene	1.12	0.34	mg/Kg wet	1.67		67.0		40-140	7.14	30		
2-Nitrophenol	0.900	0.34	mg/Kg wet	1.67		54.0		30-130	7.06	30		
4-Nitrophenol	1.25	0.66	mg/Kg wet	1.67		74.7		10-130	1.24	50		‡
N-Nitrosodiphenylamine	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	2.65	30	V-35	
N-Nitrosodi-n-propylamine	1.07	0.34	mg/Kg wet	1.67		64.2		40-140	8.67	30		
Pentachloronitrobenzene	0.964	0.34	mg/Kg wet	1.67		57.9		40-140	1.08	30	V-16	
Pentachlorophenol	0.819	0.34	mg/Kg wet	1.67		49.1		30-130	0.531	50		
Phenanthrene	0.940	0.17	mg/Kg wet	1.67		56.4		40-140	2.22	30		
Phenol	0.884	0.34	mg/Kg wet	1.67		53.0		20-130	11.9	30		
Pyrene	1.00	0.17	mg/Kg wet	1.67		60.1		40-140	0.969	30		
Pyridine	0.562	0.34	mg/Kg wet	1.67		33.7		10-140	13.6	50		†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		65.0		40-140	3.92	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 B198559 - SW-846 3546										
LCS Dup (B198559-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
1,2,4-Trichlorobenzene	0.922	0.34	mg/Kg wet	1.67		55.3	40-140	7.58	30	
2,4,5-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.5	30-130	4.14	30	
2,4,6-Trichlorophenol	1.07	0.34	mg/Kg wet	1.67		64.2	30-130	1.39	50	
Surrogate: 2-Fluorophenol	*3.75*		mg/Kg wet	6.67		56.2	30-130			
Surrogate: Phenol-d6	*3.88*		mg/Kg wet	6.67		58.2	30-130			
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.37*		mg/Kg wet	3.33		71.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.70*		mg/Kg wet	6.67		70.6	30-130			
Surrogate: p-Terphenyl-d14	*2.28*		mg/Kg wet	3.33		68.3	30-130			
Batch B198587 - SW-846 3510C										
Blank (B198587-BLK1)				Prepared: 03/11/18 Analyzed: 03/13/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							V-34
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	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							L-04, 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							
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	5.0	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 B198587 - SW-846 3510C											
Blank (B198587-BLK1)				Prepared: 03/11/18 Analyzed: 03/13/18							
Hexachloroethane	ND	2.0	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							V-34	
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachloronitrobenzene	ND	10	µg/L							V-16	
Pentachlorophenol	ND	5.0	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	µg/L							R-05	
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	*100*		µg/L	200		50.1	15-110				
Surrogate: Phenol-d6	*73.0*		µg/L	200		36.5	15-110				
Surrogate: Nitrobenzene-d5	*85.0*		µg/L	100		85.0	30-130				
Surrogate: 2-Fluorobiphenyl	*74.7*		µg/L	100		74.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*161*		µg/L	200		80.3	15-110				
Surrogate: p-Terphenyl-d14	*93.2*		µg/L	100		93.2	30-130				
LCS (B198587-BS1)				Prepared: 03/11/18 Analyzed: 03/13/18							
Acenaphthene	83.1	5.0	µg/L	100		83.1	40-140				
Acenaphthylene	77.8	5.0	µg/L	100		77.8	40-140				
Aniline	55.2	5.0	µg/L	100		55.2	40-140			V-34	†
Anthracene	84.5	5.0	µg/L	100		84.5	40-140				
Benzo(a)anthracene	85.2	5.0	µg/L	100		85.2	40-140				
Benzo(a)pyrene	92.2	5.0	µg/L	100		92.2	40-140				
Benzo(b)fluoranthene	88.2	5.0	µg/L	100		88.2	40-140				
Benzo(g,h,i)perylene	89.5	5.0	µg/L	100		89.5	40-140				
Benzo(k)fluoranthene	91.6	5.0	µg/L	100		91.6	40-140				
Bis(2-chloroethoxy)methane	96.4	10	µg/L	100		96.4	40-140				
Bis(2-chloroethyl)ether	88.4	10	µg/L	100		88.4	40-140				
Bis(2-chloroisopropyl)ether	101	10	µg/L	100		101	40-140				
Bis(2-Ethylhexyl)phthalate	94.0	10	µg/L	100		94.0	40-140				
4-Bromophenylphenylether	88.7	10	µg/L	100		88.7	40-140				
Butylbenzylphthalate	91.9	10	µg/L	100		91.9	40-140				
Carbazole	85.6	10	µg/L	100		85.6	40-140				
4-Chloroaniline	32.8	10	µg/L	100		**32.8**	* 40-140			L-04, V-34	†
4-Chloro-3-methylphenol	86.0	10	µg/L	100		86.0	30-130				
2-Chloronaphthalene	72.3	10	µg/L	100		72.3	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 B198587 - SW-846 3510C											
LCS (B198587-BS1)				Prepared: 03/11/18 Analyzed: 03/13/18							
2-Chlorophenol	75.9	10	µg/L	100		75.9	30-130				
4-Chlorophenylphenylether	83.1	10	µg/L	100		83.1	40-140				
Chrysene	84.1	5.0	µg/L	100		84.1	40-140				
Dibenz(a,h)anthracene	94.9	5.0	µg/L	100		94.9	40-140				
Dibenzofuran	81.9	5.0	µg/L	100		81.9	40-140				
Di-n-butylphthalate	86.4	10	µg/L	100		86.4	40-140				
3,3-Dichlorobenzidine	72.6	10	µg/L	100		72.6	40-140				†
2,4-Dichlorophenol	83.0	10	µg/L	100		83.0	30-130				
Diethylphthalate	83.8	10	µg/L	100		83.8	40-140				
2,4-Dimethylphenol	71.4	10	µg/L	100		71.4	30-130				
Dimethylphthalate	83.1	10	µg/L	100		83.1	40-140				
4,6-Dinitro-2-methylphenol	81.6	10	µg/L	100		81.6	30-130				
2,4-Dinitrophenol	91.2	10	µg/L	100		91.2	30-130				
2,4-Dinitrotoluene	90.2	10	µg/L	100		90.2	40-140				
2,6-Dinitrotoluene	89.9	10	µg/L	100		89.9	40-140				
Di-n-octylphthalate	95.0	10	µg/L	100		95.0	40-140				
Fluoranthene	83.6	5.0	µg/L	100		83.6	40-140				
Fluorene	80.8	5.0	µg/L	100		80.8	40-140				
Hexachlorobenzene	85.1	10	µg/L	100		85.1	40-140				
Hexachlorobutadiene	78.8	10	µg/L	100		78.8	40-140				
Hexachlorocyclopentadiene	71.4	10	µg/L	100		71.4	30-140				
Hexachloroethane	76.2	10	µg/L	100		76.2	40-140				
Indeno(1,2,3-cd)pyrene	89.0	5.0	µg/L	100		89.0	40-140				
Isophorone	93.8	10	µg/L	100		93.8	40-140				
2-Methylnaphthalene	87.6	5.0	µg/L	100		87.6	40-140				
2-Methylphenol	58.1	10	µg/L	100		58.1	30-130				
3/4-Methylphenol	75.3	10	µg/L	100		75.3	30-130				
Naphthalene	78.6	5.0	µg/L	100		78.6	40-140				
2-Nitroaniline	99.5	10	µg/L	100		99.5	40-140				
3-Nitroaniline	54.8	10	µg/L	100		54.8	40-140			V-34	†
4-Nitroaniline	87.4	10	µg/L	100		87.4	40-140				
Nitrobenzene	88.6	10	µg/L	100		88.6	40-140				
2-Nitrophenol	86.0	10	µg/L	100		86.0	30-130				
4-Nitrophenol	55.2	10	µg/L	100		55.2	10-130				
N-Nitrosodiphenylamine	104	10	µg/L	100		104	40-140				
N-Nitrosodi-n-propylamine	88.2	10	µg/L	100		88.2	40-140				
Pentachloronitrobenzene	97.2	10	µg/L	100		97.2	40-140			V-16	
Pentachlorophenol	83.9	10	µg/L	100		83.9	30-130				
Phenanthrene	84.5	5.0	µg/L	100		84.5	40-140				
Phenol	44.4	10	µg/L	100		44.4	20-130				
Pyrene	84.0	5.0	µg/L	100		84.0	40-140				
Pyridine	23.1	5.0	µg/L	100		23.1	10-140			R-05	†
1,2,4,5-Tetrachlorobenzene	84.0	10	µg/L	100		84.0	40-140				
1,2,4-Trichlorobenzene	76.1	5.0	µg/L	100		76.1	40-140				
2,4,5-Trichlorophenol	82.8	10	µg/L	100		82.8	30-130				
2,4,6-Trichlorophenol	83.6	10	µg/L	100		83.6	30-130				
Surrogate: 2-Fluorophenol	*122*		µg/L	200		61.0	15-110				
Surrogate: Phenol-d6	*93.1*		µg/L	200		46.5	15-110				
Surrogate: Nitrobenzene-d5	*98.5*		µg/L	100		98.5	30-130				
Surrogate: 2-Fluorobiphenyl	*88.1*		µg/L	100		88.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*197*		µg/L	200		98.3	15-110				
Surrogate: p-Terphenyl-d14	*95.9*		µg/L	100		95.9	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B198587 - SW-846 3510C												
LCS Dup (B198587-BSD1)				Prepared: 03/11/18 Analyzed: 03/13/18								
Acenaphthene	84.5	5.0	µg/L	100		84.5		40-140	1.66	20		
Acenaphthylene	79.4	5.0	µg/L	100		79.4		40-140	2.02	20		
Aniline	66.1	5.0	µg/L	100		66.1		40-140	18.0	50	V-34	† ‡
Anthracene	84.5	5.0	µg/L	100		84.5		40-140	0.0592	20		
Benzo(a)anthracene	86.6	5.0	µg/L	100		86.6		40-140	1.66	20		
Benzo(a)pyrene	91.5	5.0	µg/L	100		91.5		40-140	0.741	20		
Benzo(b)fluoranthene	88.2	5.0	µg/L	100		88.2		40-140	0.0567	20		
Benzo(g,h,i)perylene	89.8	5.0	µg/L	100		89.8		40-140	0.379	20		
Benzo(k)fluoranthene	90.7	5.0	µg/L	100		90.7		40-140	1.02	20		
Bis(2-chloroethoxy)methane	97.4	10	µg/L	100		97.4		40-140	1.02	20		
Bis(2-chloroethyl)ether	92.8	10	µg/L	100		92.8		40-140	4.78	20		
Bis(2-chloroisopropyl)ether	104	10	µg/L	100		104		40-140	3.30	20		
Bis(2-Ethylhexyl)phthalate	95.2	10	µg/L	100		95.2		40-140	1.27	20		
4-Bromophenylphenylether	88.5	10	µg/L	100		88.5		40-140	0.203	20		
Butylbenzylphthalate	94.3	10	µg/L	100		94.3		40-140	2.61	20		
Carbazole	85.3	10	µg/L	100		85.3		40-140	0.340	20		
4-Chloroaniline	39.5	10	µg/L	100		**39.5**	*	40-140	18.7	20	L-04, V-34	†
4-Chloro-3-methylphenol	88.0	10	µg/L	100		88.0		30-130	2.32	20		
2-Chloronaphthalene	73.9	10	µg/L	100		73.9		40-140	2.18	20		
2-Chlorophenol	80.5	10	µg/L	100		80.5		30-130	5.78	20		
4-Chlorophenylphenylether	85.3	10	µg/L	100		85.3		40-140	2.63	20		
Chrysene	85.4	5.0	µg/L	100		85.4		40-140	1.58	20		
Dibenz(a,h)anthracene	93.8	5.0	µg/L	100		93.8		40-140	1.18	20		
Dibenzofuran	84.5	5.0	µg/L	100		84.5		40-140	3.09	20		
Di-n-butylphthalate	87.1	10	µg/L	100		87.1		40-140	0.819	20		
3,3-Dichlorobenzidine	75.4	10	µg/L	100		75.4		40-140	3.70	20		† ‡
2,4-Dichlorophenol	85.3	10	µg/L	100		85.3		30-130	2.69	20		
Diethylphthalate	86.9	10	µg/L	100		86.9		40-140	3.69	20		
2,4-Dimethylphenol	73.0	10	µg/L	100		73.0		30-130	2.24	20		
Dimethylphthalate	86.2	10	µg/L	100		86.2		40-140	3.75	50		
4,6-Dinitro-2-methylphenol	82.4	10	µg/L	100		82.4		30-130	0.988	50		
2,4-Dinitrophenol	93.3	10	µg/L	100		93.3		30-130	2.30	50		
2,4-Dinitrotoluene	92.0	10	µg/L	100		92.0		40-140	2.01	20		
2,6-Dinitrotoluene	92.1	10	µg/L	100		92.1		40-140	2.46	20		
Di-n-octylphthalate	93.5	10	µg/L	100		93.5		40-140	1.63	20		
Fluoranthene	84.6	5.0	µg/L	100		84.6		40-140	1.12	20		
Fluorene	83.4	5.0	µg/L	100		83.4		40-140	3.15	20		
Hexachlorobenzene	83.0	10	µg/L	100		83.0		40-140	2.48	20		
Hexachlorobutadiene	79.4	10	µg/L	100		79.4		40-140	0.721	20		
Hexachlorocyclopentadiene	73.0	10	µg/L	100		73.0		30-140	2.20	50		
Hexachloroethane	80.4	10	µg/L	100		80.4		40-140	5.39	50		
Indeno(1,2,3-cd)pyrene	88.2	5.0	µg/L	100		88.2		40-140	0.903	50		
Isophorone	95.9	10	µg/L	100		95.9		40-140	2.17	20		
2-Methylnaphthalene	88.7	5.0	µg/L	100		88.7		40-140	1.18	20		
2-Methylphenol	61.2	10	µg/L	100		61.2		30-130	5.20	20		
3/4-Methylphenol	77.8	10	µg/L	100		77.8		30-130	3.20	20		
Naphthalene	80.0	5.0	µg/L	100		80.0		40-140	1.83	20		
2-Nitroaniline	103	10	µg/L	100		103		40-140	3.80	20		
3-Nitroaniline	63.0	10	µg/L	100		63.0		40-140	13.8	20	V-34	†
4-Nitroaniline	92.0	10	µg/L	100		92.0		40-140	5.11	20		
Nitrobenzene	90.7	10	µg/L	100		90.7		40-140	2.31	20		
2-Nitrophenol	88.6	10	µg/L	100		88.6		30-130	2.97	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 B198587 - SW-846 3510C												
LCS Dup (B198587-BSD1)				Prepared: 03/11/18 Analyzed: 03/13/18								
4-Nitrophenol	56.3	10	µg/L	100		56.3	10-130	1.90		50		‡
N-Nitrosodiphenylamine	105	10	µg/L	100		105	40-140	0.919		20		
N-Nitrosodi-n-propylamine	92.8	10	µg/L	100		92.8	40-140	5.02		20		
Pentachloronitrobenzene	98.1	10	µg/L	100		98.1	40-140	0.973		20	V-16	
Pentachlorophenol	83.6	10	µg/L	100		83.6	30-130	0.394		50		
Phenanthrene	85.9	5.0	µg/L	100		85.9	40-140	1.68		20		
Phenol	46.4	10	µg/L	100		46.4	20-130	4.60		20		
Pyrene	85.8	5.0	µg/L	100		85.8	40-140	2.11		20		
Pyridine	40.1	5.0	µg/L	100		40.1	10-140	**53.8**	*	50	R-05	†
1,2,4,5-Tetrachlorobenzene	85.0	10	µg/L	100		85.0	40-140	1.12		20		
1,2,4-Trichlorobenzene	77.7	5.0	µg/L	100		77.7	40-140	2.15		20		
2,4,5-Trichlorophenol	85.4	10	µg/L	100		85.4	30-130	3.13		20		
2,4,6-Trichlorophenol	85.9	10	µg/L	100		85.9	30-130	2.73		50		
Surrogate: 2-Fluorophenol	*128*		µg/L	200		64.0	15-110					
Surrogate: Phenol-d6	*96.5*		µg/L	200		48.3	15-110					
Surrogate: Nitrobenzene-d5	*100*		µg/L	100		100	30-130					
Surrogate: 2-Fluorobiphenyl	*89.3*		µg/L	100		89.3	30-130					
Surrogate: 2,4,6-Tribromophenol	*199*		µg/L	200		99.5	15-110					
Surrogate: p-Terphenyl-d14	*97.5*		µg/L	100		97.5	30-130					
Batch B198717 - SW-846 3510C												
Blank (B198717-BLK1)				Prepared: 03/11/18 Analyzed: 03/13/18								
Acenaphthene (SIM)	ND	0.30	µg/L									
Acenaphthylene (SIM)	ND	0.30	µg/L									
Anthracene (SIM)	ND	0.20	µg/L									
Benzo(a)anthracene (SIM)	ND	0.050	µg/L									
Benzo(a)pyrene (SIM)	ND	0.10	µg/L									
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L									
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L									
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L									
Chrysene (SIM)	ND	0.20	µg/L									
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L									
Fluoranthene (SIM)	ND	0.50	µg/L									
Fluorene (SIM)	ND	1.0	µg/L									
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L									
2-Methylnaphthalene (SIM)	ND	1.0	µg/L									
Naphthalene (SIM)	ND	1.0	µg/L									
Phenanthrene (SIM)	ND	0.050	µg/L									
Pyrene (SIM)	ND	1.0	µg/L									
Surrogate: Nitrobenzene-d5	*94.2*		µg/L	100		94.2	30-130					
Surrogate: 2-Fluorobiphenyl	*88.8*		µg/L	100		88.8	30-130					
Surrogate: p-Terphenyl-d14	*77.9*		µg/L	100		77.9	30-130					

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198717 - SW-846 3510C										
LCS (B198717-BS1)				Prepared: 03/11/18 Analyzed: 03/13/18						
Acenaphthene (SIM)	107	7.5	µg/L	100		107	40-140			
Acenaphthylene (SIM)	108	7.5	µg/L	100		108	40-140			
Anthracene (SIM)	109	5.0	µg/L	100		109	40-140			
Benzo(a)anthracene (SIM)	105	1.2	µg/L	100		105	40-140			
Benzo(a)pyrene (SIM)	112	2.5	µg/L	100		112	40-140			
Benzo(b)fluoranthene (SIM)	108	1.2	µg/L	100		108	40-140			
Benzo(g,h,i)perylene (SIM)	111	12	µg/L	100		111	40-140			
Benzo(k)fluoranthene (SIM)	110	5.0	µg/L	100		110	40-140			
Chrysene (SIM)	95.5	5.0	µg/L	100		95.5	40-140			
Dibenz(a,h)anthracene (SIM)	127	5.0	µg/L	100		127	40-140			
Fluoranthene (SIM)	108	12	µg/L	100		108	40-140			
Fluorene (SIM)	113	25	µg/L	100		113	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	122	5.0	µg/L	100		122	40-140			
2-Methylnaphthalene (SIM)	105	25	µg/L	100		105	40-140			
Naphthalene (SIM)	106	25	µg/L	100		106	40-140			
Phenanthrene (SIM)	100	1.2	µg/L	100		100	40-140			
Pyrene (SIM)	90.3	25	µg/L	100		90.3	40-140			
Surrogate: Nitrobenzene-d5	*119*		µg/L	100		119	30-130			
Surrogate: 2-Fluorobiphenyl	*124*		µg/L	100		124	30-130			
Surrogate: p-Terphenyl-d14	*89.8*		µg/L	100		89.8	30-130			
LCS Dup (B198717-BSD1)				Prepared: 03/11/18 Analyzed: 03/13/18						
Acenaphthene (SIM)	95.4	7.5	µg/L	100		95.4	40-140	11.3	20	
Acenaphthylene (SIM)	96.8	7.5	µg/L	100		96.8	40-140	11.0	20	
Anthracene (SIM)	99.4	5.0	µg/L	100		99.4	40-140	9.60	20	
Benzo(a)anthracene (SIM)	96.2	1.2	µg/L	100		96.2	40-140	8.32	20	
Benzo(a)pyrene (SIM)	103	2.5	µg/L	100		103	40-140	8.01	20	
Benzo(b)fluoranthene (SIM)	100	1.2	µg/L	100		100	40-140	7.69	20	
Benzo(g,h,i)perylene (SIM)	102	12	µg/L	100		102	40-140	8.62	20	
Benzo(k)fluoranthene (SIM)	102	5.0	µg/L	100		102	40-140	7.15	20	
Chrysene (SIM)	88.2	5.0	µg/L	100		88.2	40-140	7.92	20	
Dibenz(a,h)anthracene (SIM)	117	5.0	µg/L	100		117	40-140	8.30	20	
Fluoranthene (SIM)	98.8	12	µg/L	100		98.8	40-140	8.48	20	
Fluorene (SIM)	101	25	µg/L	100		101	40-140	10.7	20	
Indeno(1,2,3-cd)pyrene (SIM)	112	5.0	µg/L	100		112	40-140	8.75	20	‡
2-Methylnaphthalene (SIM)	93.6	25	µg/L	100		93.6	40-140	11.3	20	
Naphthalene (SIM)	95.3	25	µg/L	100		95.3	40-140	11.0	20	
Phenanthrene (SIM)	91.6	1.2	µg/L	100		91.6	40-140	9.29	20	
Pyrene (SIM)	84.7	25	µg/L	100		84.7	40-140	6.34	20	
Surrogate: Nitrobenzene-d5	*107*		µg/L	100		107	30-130			
Surrogate: 2-Fluorobiphenyl	*110*		µg/L	100		110	30-130			
Surrogate: p-Terphenyl-d14	*81.7*		µg/L	100		81.7	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 B198592 - SW-846 3510C										
Blank (B198592-BLK1)				Prepared: 03/11/18 Analyzed: 03/13/18						
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	*1.41*		µg/L	2.00		70.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.36*		µg/L	2.00		68.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/L	2.00		67.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.35*		µg/L	2.00		67.7	30-150			
LCS (B198592-BS1)				Prepared: 03/11/18 Analyzed: 03/13/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		85.1	40-140			
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.7	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.8	40-140			
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		80.0	40-140			
Surrogate: Decachlorobiphenyl	*1.56*		µg/L	2.00		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.51*		µg/L	2.00		75.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.33*		µg/L	2.00		66.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.33*		µg/L	2.00		66.3	30-150			
LCS Dup (B198592-BSD1)				Prepared: 03/11/18 Analyzed: 03/13/18						
Aroclor-1016	0.48	0.20	µg/L	0.500		95.5	40-140	11.5	20	
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.8	40-140	16.4	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		92.9	40-140	12.6	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.4	40-140	12.1	20	
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.51*		µg/L	2.00		75.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198502 - SW-846 3540C										
Blank (B198502-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
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	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.224*		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg wet	0.200		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.3	30-150			
LCS (B198502-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.0	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.6	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.2	30-150			
LCS Dup (B198502-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.1	40-140	0.172	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.2	40-140	5.63	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.0	40-140	1.95	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.4	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.153*		mg/Kg wet	0.200		76.5	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 B198502 - SW-846 3540C										
Matrix Spike (B198502-MS1)	**Source: 18C0363-06**			Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.21	0.094	mg/Kg dry	0.234	ND	91.1	40-140			
Aroclor-1016 [2C]	0.23	0.094	mg/Kg dry	0.234	ND	96.5	40-140			
Aroclor-1260	0.17	0.094	mg/Kg dry	0.234	ND	71.2	40-140			
Aroclor-1260 [2C]	0.18	0.094	mg/Kg dry	0.234	ND	77.0	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg dry	0.234		72.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg dry	0.234		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg dry	0.234		72.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg dry	0.234		75.7	30-150			
Matrix Spike Dup (B198502-MSD1)	**Source: 18C0363-06**			Prepared: 03/09/18 Analyzed: 03/12/18						
Aroclor-1016	0.22	0.094	mg/Kg dry	0.234	ND	94.8	40-140	3.99	50	
Aroclor-1016 [2C]	0.25	0.094	mg/Kg dry	0.234	ND	107	40-140	10.3	50	
Aroclor-1260	0.19	0.094	mg/Kg dry	0.234	ND	82.8	40-140	15.1	50	
Aroclor-1260 [2C]	0.20	0.094	mg/Kg dry	0.234	ND	84.3	40-140	9.12	50	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg dry	0.234		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg dry	0.234		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg dry	0.234		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.234		79.2	30-150			
Batch B198596 - SW-846 3540C										
Blank (B198596-BLK1)				Prepared: 03/11/18 Analyzed: 03/12/18						
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	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg wet	0.200		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198596 - SW-846 3540C										
LCS (B198596-BS1)				Prepared: 03/11/18 Analyzed: 03/12/18						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		99.0	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.4	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.0	40-140			
Surrogate: Decachlorobiphenyl	*0.219*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
LCS Dup (B198596-BSD1)				Prepared: 03/11/18 Analyzed: 03/12/18						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.5	40-140	2.57	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140	1.83	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		99.8	40-140	1.03	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.5	40-140	0.605	30	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B198500 - SW-846 3510C										
Blank (B198500-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0754*		mg/L	0.100		75.4	50-150			
LCS (B198500-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
CT ETPH	0.702	0.075	mg/L	1.00		70.2	60-120			
Surrogate: o-Terphenyl	*0.0906*		mg/L	0.100		90.6	50-150			
LCS Dup (B198500-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
CT ETPH	0.693	0.075	mg/L	1.00		69.3	60-120	1.32	30	
Surrogate: o-Terphenyl	*0.0875*		mg/L	0.100		87.5	50-150			
Batch B198557 - SW-846 3546										
Blank (B198557-BLK1)				Prepared: 03/09/18 Analyzed: 03/11/18						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.44*		mg/Kg wet	3.33		103	50-150			
LCS (B198557-BS1)				Prepared: 03/09/18 Analyzed: 03/11/18						
CT ETPH	26.4	10	mg/Kg wet	33.3		79.2	60-120			
Surrogate: o-Terphenyl	*3.47*		mg/Kg wet	3.33		104	50-150			
LCS Dup (B198557-BSD1)				Prepared: 03/09/18 Analyzed: 03/11/18						
CT ETPH	25.4	10	mg/Kg wet	33.3		76.3	60-120	3.76	30	
Surrogate: o-Terphenyl	*3.33*		mg/Kg wet	3.33		100	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 B198516 - SW-846 3050B										
Blank (B198516-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
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 (B198516-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Antimony	62.9	4.7	mg/Kg wet	65.1		96.6	3.8-212			
Arsenic	145	4.7	mg/Kg wet	147		98.6	83-117			
Barium	330	4.7	mg/Kg wet	314		105	82.2-117.8			
Beryllium	58.2	0.47	mg/Kg wet	53.4		109	82.8-117.2			
Cadmium	199	0.47	mg/Kg wet	193		103	82.4-117.6			
Chromium	81.0	0.94	mg/Kg wet	82.6		98.1	81.8-118.2			
Copper	181	0.94	mg/Kg wet	171		106	83.6-116.4			
Lead	88.0	1.4	mg/Kg wet	92.3		95.4	82.8-117			
Nickel	142	0.94	mg/Kg wet	137		103	82.5-118.2			
Selenium	189	9.4	mg/Kg wet	187		101	79.1-121.4			
Silver	41.7	0.94	mg/Kg wet	40.7		102	79.6-120.4			
Thallium	165	4.7	mg/Kg wet	153		108	81-119			
Vanadium	90.7	1.9	mg/Kg wet	86.6		105	77.6-122.4			
Zinc	193	1.9	mg/Kg wet	189		102	79.9-120.1			
LCS Dup (B198516-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Antimony	48.6	4.6	mg/Kg wet	65.1		74.6	3.8-212	25.6	30	
Arsenic	141	4.6	mg/Kg wet	147		95.9	83-117	2.73	30	
Barium	319	4.6	mg/Kg wet	314		102	82.2-117.8	3.33	30	
Beryllium	57.2	0.46	mg/Kg wet	53.4		107	82.8-117.2	1.66	30	
Cadmium	188	0.46	mg/Kg wet	193		97.2	82.4-117.6	5.79	30	
Chromium	80.5	0.93	mg/Kg wet	82.6		97.5	81.8-118.2	0.616	30	
Copper	178	0.93	mg/Kg wet	171		104	83.6-116.4	1.43	30	
Lead	98.8	1.4	mg/Kg wet	92.3		107	82.8-117	11.5	30	
Nickel	134	0.93	mg/Kg wet	137		98.0	82.5-118.2	5.25	30	
Selenium	176	9.3	mg/Kg wet	187		93.9	79.1-121.4	7.26	30	
Silver	40.8	0.93	mg/Kg wet	40.7		100	79.6-120.4	2.13	30	
Thallium	159	4.6	mg/Kg wet	153		104	81-119	3.35	30	
Vanadium	83.7	1.9	mg/Kg wet	86.6		96.7	77.6-122.4	7.95	30	
Zinc	184	1.9	mg/Kg wet	189		97.3	79.9-120.1	4.95	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 B198516 - SW-846 3050B										
MRL Check (B198516-MRL1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Lead	0.526	0.49	mg/Kg wet	0.488		108	80-120			
Batch B198517 - SW-846 7471										
Blank (B198517-BLK1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B198517-BS1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	9.74	2.0	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B198517-BSD1)				Prepared: 03/09/18 Analyzed: 03/12/18						
Mercury	11.6	2.0	mg/Kg wet	9.36		124	73.7-126.3	17.6	30	
Batch B198518 - SW-846 3005A										
Blank (B198518-BLK1)				Prepared & Analyzed: 03/09/18						
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							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B198518-BS1)				Prepared & Analyzed: 03/09/18						
Antimony	528	10	µg/L	500		106	80-120			
Arsenic	541	4.0	µg/L	500		108	80-120			
Barium	543	100	µg/L	500		109	80-120			
Beryllium	520	4.0	µg/L	500		104	80-120			
Cadmium	536	5.0	µg/L	500		107	80-120			
Chromium	536	10	µg/L	500		107	80-120			
Copper	1060	50	µg/L	1000		106	80-120			
Lead	537	10	µg/L	500		107	80-120			
Nickel	546	50	µg/L	500		109	80-120			
Selenium	541	50	µg/L	500		108	80-120			
Silver	533	5.0	µg/L	500		107	80-120			
Thallium	535	2.0	µg/L	500		107	80-120			
Vanadium	515	50	µg/L	500		103	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 B198518 - SW-846 3005A										
LCS Dup (B198518-BSD1)				Prepared & Analyzed: 03/09/18						
Antimony	531	10	µg/L	500		106	80-120	0.501	20	
Arsenic	525	4.0	µg/L	500		105	80-120	3.00	20	
Barium	541	100	µg/L	500		108	80-120	0.348	20	
Beryllium	508	4.0	µg/L	500		102	80-120	2.22	20	
Cadmium	537	5.0	µg/L	500		107	80-120	0.249	20	
Chromium	523	10	µg/L	500		105	80-120	2.46	20	
Copper	1050	50	µg/L	1000		105	80-120	0.953	20	
Lead	536	10	µg/L	500		107	80-120	0.183	20	
Nickel	532	50	µg/L	500		106	80-120	2.43	20	
Selenium	528	50	µg/L	500		106	80-120	2.52	20	
Silver	537	5.0	µg/L	500		107	80-120	0.641	20	
Thallium	536	2.0	µg/L	500		107	80-120	0.269	20	
Vanadium	509	50	µg/L	500		102	80-120	1.17	20	
Zinc	1040	100	µg/L	1000		104	80-120	1.74	20	
Batch B198521 - SW-846 7470A Prep										
Blank (B198521-BLK1)				Prepared & Analyzed: 03/09/18						
Mercury	ND	0.00010	mg/L							
LCS (B198521-BS1)				Prepared & Analyzed: 03/09/18						
Mercury	0.00188	0.00010	mg/L	0.00200		94.1	80-120			
LCS Dup (B198521-BSD1)				Prepared & Analyzed: 03/09/18						
Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120	4.21	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 B198492 - % Solids										
Duplicate (B198492-DUP5)	**Source: 18C0363-06**		Prepared: 03/08/18 Analyzed: 03/09/18							
% Solids	85.6		% Wt		85.3			0.336	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-226A (0-0.5)

Lab Sample ID: 18C0363-01 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.12	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-227A (0-0.5)

Lab Sample ID: 18C0363-03 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-228A (0-0.5)

Lab Sample ID: 18C0363-05 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.59	
	2	0.000	-0.030	0.030	0.63	6.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-229A (0-0.5)

Lab Sample ID: 18C0363-08 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.43	
	2	0.000	-0.030	0.030	0.47	8.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

DUP-3

Lab Sample ID: 18C0363-14 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.43	
	2	0.000	-0.030	0.030	0.35	20.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.1	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B198502-BS1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B198502-BSD1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B198502-MS1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.23	9.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B198502-MSD1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.25	12.8
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B198592-BS1 Date(s) Analyzed: 03/13/2018 03/13/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.40	2.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B198592-BSD1 Date(s) Analyzed: 03/13/2018 03/13/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.50	4.1
Aroclor-1260	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.45	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B198596-BS1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B198596-BSD1 Date(s) Analyzed: 03/12/2018 03/12/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
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.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high 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 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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
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	02/5/2019
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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East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD 18C0363

Doc # 381 Rev 1_03242017

Page 3 of 5

Company Name: Weston & Sampson
Address: 273 Dividend Road Rocky Hill CT
Phone: 1-800 SAMPSON
Project Name: Berlin Jetting Barn
Project Location: 107 Selden St Berlin CT
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Gabriella Pagliuca & Will Strothark

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: 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	Matrix Code	Conc Code	PCBs	RSR 15 Metals												# of Containers / [2] Preservation Code / [3] Container Code
																					1 / I
																					H / H
																					A / A
1	B-226A (0-0.5)	3/8/18	1205		X	S	U	X	X												
2	B-226B (3-4)		1210					X													
3	B-227A (0-0.5)		1220					X	X												
4	B-227B (3-4)		1225					X													
5	B-228A (0-0.5)		1230					X													
6	B-228B (3-4)		1235					X													
7	B-228C (7-8)		1240					X													
9	B-229A (0-0.5)		1245					X													
9	B-229B (3-4)		1250					X													
10	B-229C (7-9)	↓	1255		↓	↓	↓	X													

ANALYSIS REQUESTED

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)

[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~~ samples ~~WC~~ has been submitted for possible SPLP reactivity after results have been received. Please run MS/MSD on B-228B (3-4) for PCBs.

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

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 3/8/18 3:45pm
Relinquished by: (signature)	Date/Time: 3/8/18 17:40
Received by: (signature)	Date/Time: 3/8/18 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT GA PMC RL's 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 #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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con-test ANALYTICAL LABORATORY
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http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD 18E0363

Doc # 381 Rev 1_03242017

Page 4 of 5

Company Name:	Weston & Sampson
Address:	273 Dividd Road, Rocky Hill CT
Phone:	1 800 SAMPSON
Project Name:	Berlin Selth Barn
Project Location:	101 Selth Street Berlin CT
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Gabriella Pagliuca & Will Sintmaier

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: pagliucag@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCB's	SVOC's	ETPH	Metals RCRA 15	# of Containers	Preservation Code	Container Code
								1	1	1	1			
								I	I	I	I			
								A	A	A	A			
11	B-217C (10-12)	3/2/18	0910		X	S	U	X						
12	DUP-1		—					X						
13	DUP-2		—						X					
14	DUP-3		—					X						
15	DUP-4		—							X				
16	DUP-5	↓	—		↓	↓	↓				X			

Comments:
Additional soil has been submitted for possible SPLP reactivation 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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Relinquished by: (signature)		Date/Time:
Received by: (signature)		3/8/18 Date/Time: 15:45
Relinquished by: (signature)		3/8/18 Date/Time: 17:40
Received by: (signature)	Sam Simiq 2.0, 2.2, 3.3	Date/Time: 3/8/18 1740
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RCP 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 #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

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39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD 18C0363 Doc # 381 Rev 1_03242017

Company Name: Weston & Sampson
Address: 273 Dividend Road, Rocky Hill CT
Phone: 1300 SAMPSON
Project Name: Berlin Jetty Barn
Project Location: 101 Selden Street Berlin CT
Project Number:
Project Manager: Malcolm Beer
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beer
Sampled By: Darnell A Paglinawa

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Paglinawa@wsinc.com
CLP Like Data Pkg Required: ☐
Email To: Beerm@wsinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCB's	SVOC's	15 Metals RSR	ETPH											# of Containers / Preservation Code / Container Code
								2	2	2	2											# of Containers
								I	I	I,N	I											[2] Preservation Code
								A	A	P	A											[3] Container Code
17	EB-030818	1340	3/8/18		X	O	U	X	X	X	X											

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

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

[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:
Received by: (signature)	Date/Time: 3/8/18 1548
Relinquished by: (signature)	Date/Time: 3/8/18 17:40
Received by: (signature) Sam Ewing 2.0, 2.2, 3.3	Date/Time: 3/8/18 1740
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 #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston + Sampson

Received By SE Date 3/8/18 Time 1740

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.0, 2.2, 3.3

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T Who was notified? ____

Are there Short Holds? F Who was notified? Ray, Erik

Is there enough Volume? T Who was notified? ____

Is there Headspace where applicable? N/A MS/MSD? F T SE

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? N/A

Do all samples have the proper pH? T Acid pH<2 Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	14
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear SE	445
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

- Received in 3 coolers

D:\HPCHEM\1\DATA\A031118\A0311006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/11/18
Data File Name	A0311006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	602796	649899	-7
c - 10	1.57	617486	649899	-5
c - 12	2.29	632063	649899	-3
c - 14	2.96	646063	649899	-1
c - 16	3.56	656882	649899	1
c - 18	4.17	658990	649899	1
o-Terphenyl	4.45	728695	649899	
c - 20	4.78	662060	649899	2
c - 22	5.29	664210	649899	2
c - 24	5.73	659362	649899	1
c - 26	6.13	658379	649899	1
c - 28	6.49	665231	649899	2
c - 30	6.82	677144	649899	4
c - 32	7.14	660462	649899	2
c - 34	7.43	649478	649899	0
c - 36	7.74	637875	649899	-2

* One compound allowed %D </= 50%

Samples

18C0148-02
18C0259-05
18C0259-03

D:\HPCHEM\1\DATA\A031118\A0311038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/11/18
Data File Name	A0311038.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	571386	611541	-7
c - 10	1.57	587977	611541	-4
c - 12	2.29	603698	611541	-1
c - 14	2.96	620124	611541	1
c - 16	3.56	630406	611541	3
c - 18	4.16	631037	611541	3
o-Terphenyl	4.45	694684	611541	
c - 20	4.78	631769	611541	3
c - 22	5.29	631294	611541	3
c - 24	5.73	624107	611541	2
c - 26	6.13	619717	611541	1
c - 28	6.49	621225	611541	2
c - 30	6.82	625363	611541	2
c - 32	7.14	601663	611541	-2
c - 34	7.43	587866	611541	-4
c - 36	7.74	585484	611541	-4

* One compound allowed %D </= 50%

Samples

18C0328-01
18C0328-02
18C0328-03
18C0363-15@20X

D:\HPCHEM\1\DATA\A031118\A0311070.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/11/18
Data File Name	A0311070.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	570154	606978	-6
c - 10	1.57	585414	606978	-4
c - 12	2.29	596358	606978	-2
c - 14	2.96	607842	606978	0
c - 16	3.56	616890	606978	2
c - 18	4.16	618381	606978	2
o-Terphenyl	4.45	683907	606978	
c - 20	4.78	621767	606978	2
c - 22	5.29	625195	606978	3
c - 24	5.73	622205	606978	3
c - 26	6.13	621537	606978	2
c - 28	6.49	624355	606978	3
c - 30	6.82	627589	606978	3
c - 32	7.13	601157	606978	-1
c - 34	7.43	584968	606978	-4
c - 36	7.74	580856	606978	-4

* One compound allowed %D </= 50%

Samples

18C0231-10
18C0231-11
18C0239-01
18C0276-01
18C0363-17

3/12/18 2:03 PM

C:\HPCHEM\CUSTRPT\ETPHDISC.CRT

D:\HPCHEM\1\DATA\A031118.SEC\A0311007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 3/11/18
Data File Name A0311007.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.21	582716	627099	-7
c - 10	1.55	595633	627099	-5
c - 12	2.26	607786	627099	-3
c - 14	2.92	620620	627099	-1
c - 16	3.51	638746	627099	2
c - 18	4.10	643021	627099	3
o-Terphenyl	4.38	714891	627099	
c - 20	4.71	649326	627099	4
c - 22	5.22	653138	627099	4
c - 24	5.65	649116	627099	4
c - 26	6.05	645328	627099	3
c - 28	6.40	645725	627099	3
c - 30	6.73	647698	627099	3
c - 32	7.04	621261	627099	-1
c - 34	7.33	606091	627099	-3
c - 36	7.61	600282	627099	-4

* One compound allowed %D </= 50%

Samples

18C0259-11
18C0259-08@5X
18C0259-13
18C0259-02
18C0259-04

D:\HPCHEM\1\DATA\A031118.SEC\A0311071.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	3/11/18
Data File Name	A0311071.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.22	661721	691091	-4
c - 10	1.55	680470	691091	-2
c - 12	2.26	695517	691091	1
c - 14	2.92	705415	691091	2
c - 16	3.52	717120	691091	4
c - 18	4.10	714178	691091	3
o-Terphenyl	4.38	788784	691091	
c - 20	4.71	715447	691091	4
c - 22	5.22	715732	691091	4
c - 24	5.65	707788	691091	2
c - 26	6.05	700576	691091	1
c - 28	6.40	697529	691091	1
c - 30	6.73	695296	691091	1
c - 32	7.04	664706	691091	-4
c - 34	7.33	648724	691091	-6
c - 36	7.61	646153	691091	-7

* One compound allowed %D </= 50%

Samples

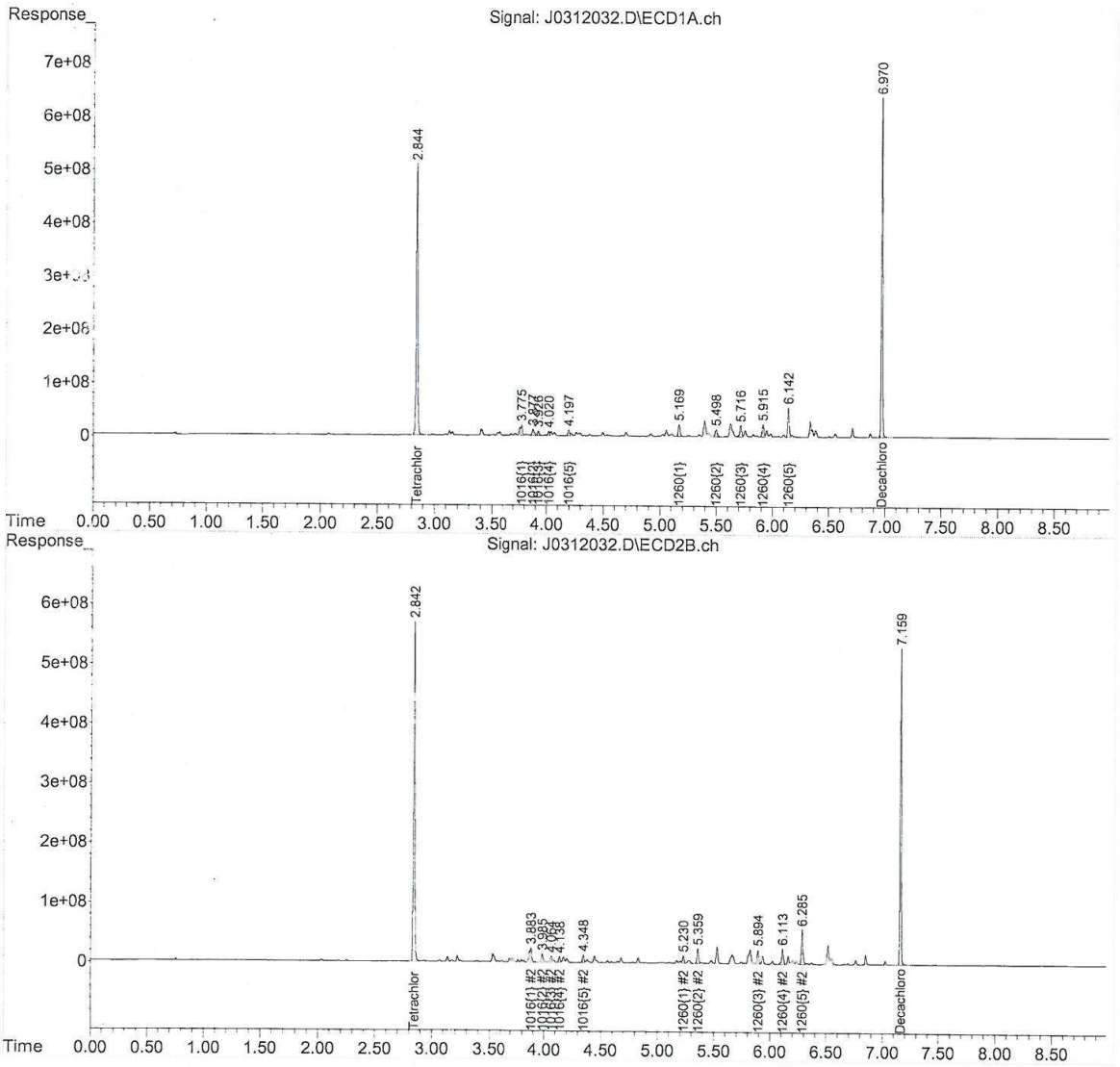
18C0231-01
18C0231-03
18C0231-04
18C0231-07
18C0231-08
18C0231-09
18C0231-05

Quantitation Report (Not Reviewed)

```
Data Path : C:\msdchem\1\data\031218\
Data File : J0312032.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Mar 2018  11:31 am
Operator  : JMB
Sample    : 1260/1016 100                          Inst    : ECD10
Misc      :
ALS Vial  : 32   Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 11:40:36 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title  : 1260/1016   02/22/18   01/19/18   ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



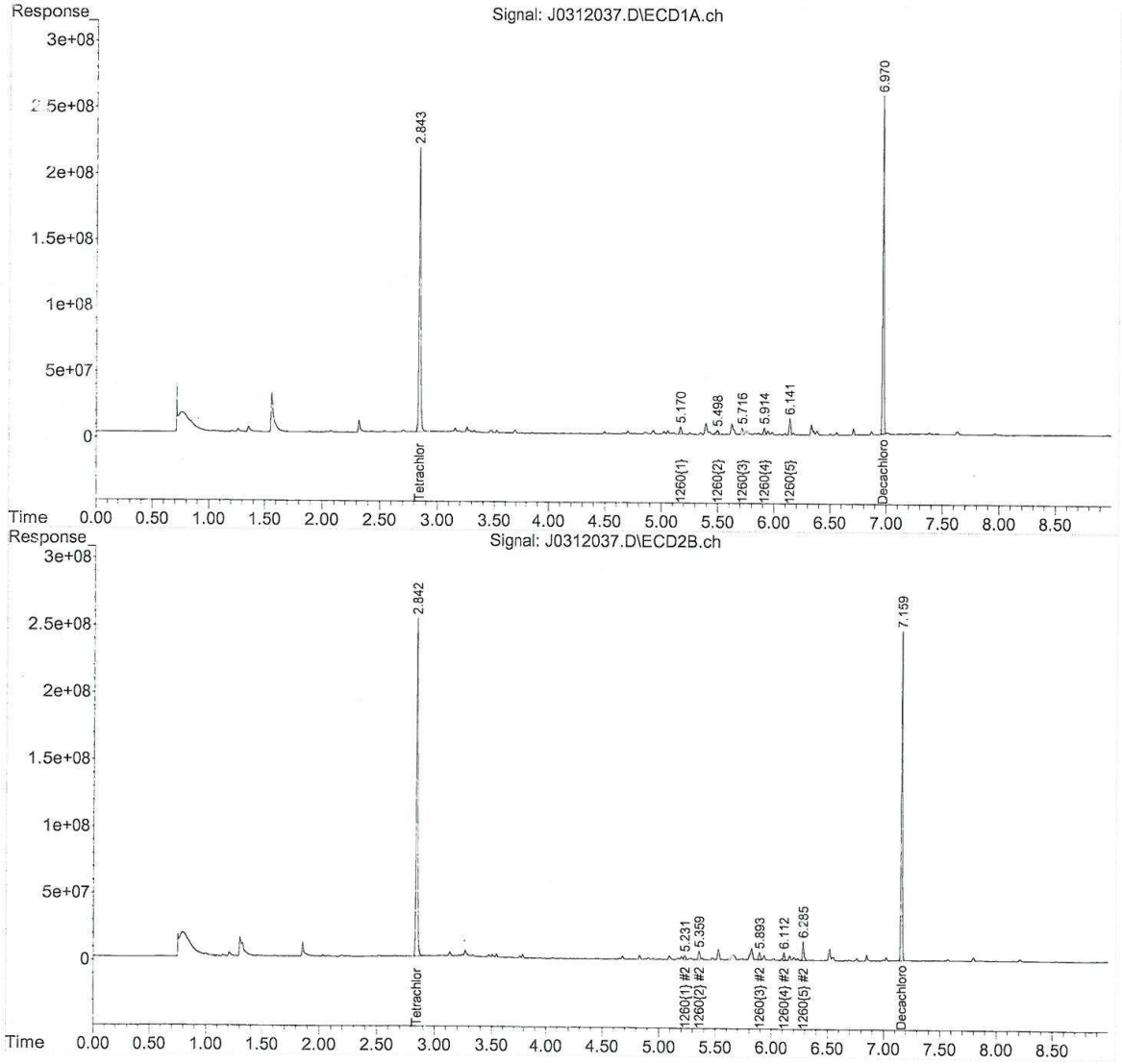
10-1260-022218C.M Tue Mar 13 13:11:15 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 12:51 pm
Operator : JMB
Sample : 18C0363-01@4X TBA Inst : ECD10
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:33:39 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



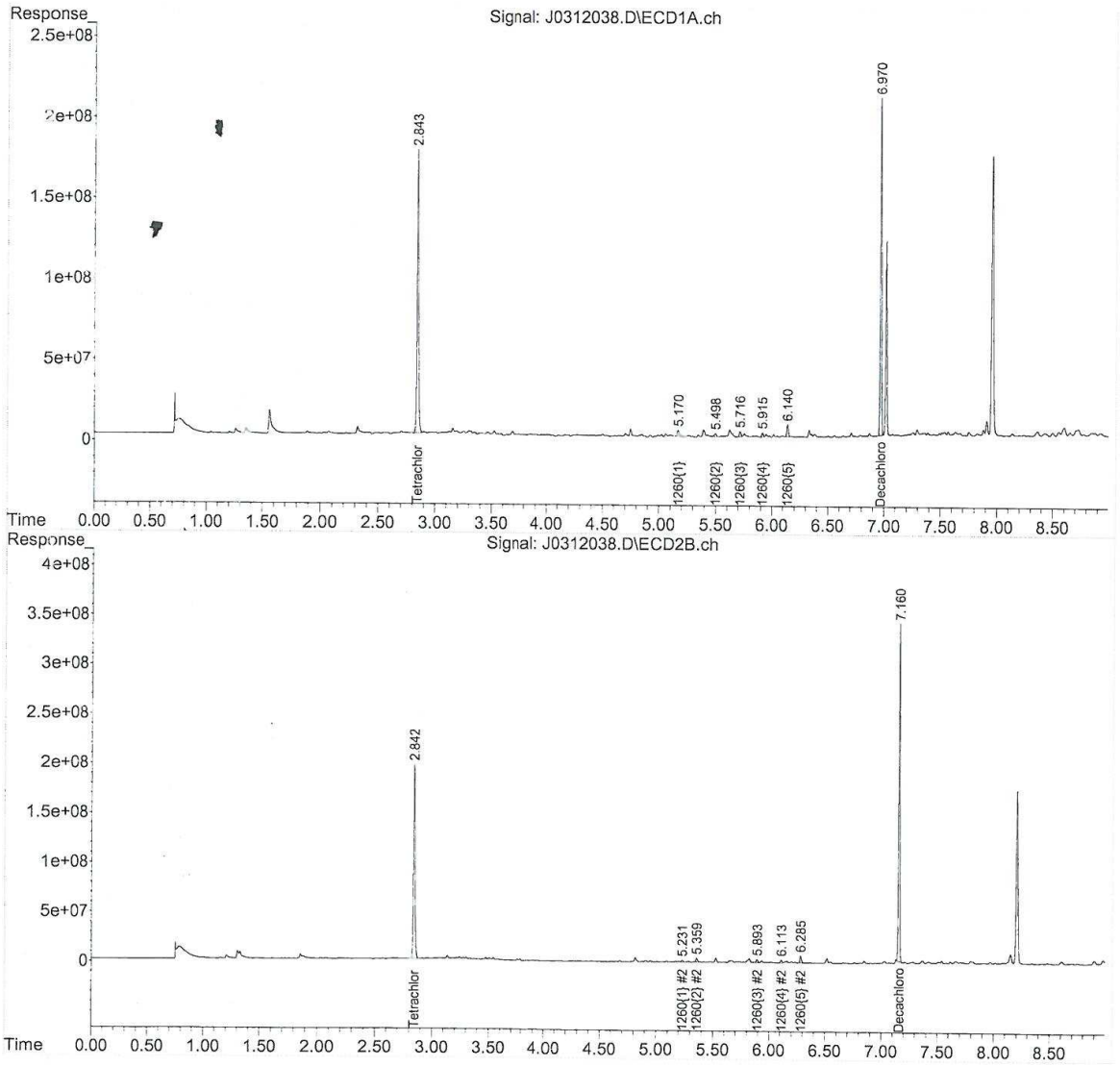
10-1260-022218C.M Tue Mar 13 12:58:53 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 1:03 pm
Operator : JMB
Sample : 18C0363-02@4X TBA Inst : ECD10
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:50:19 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



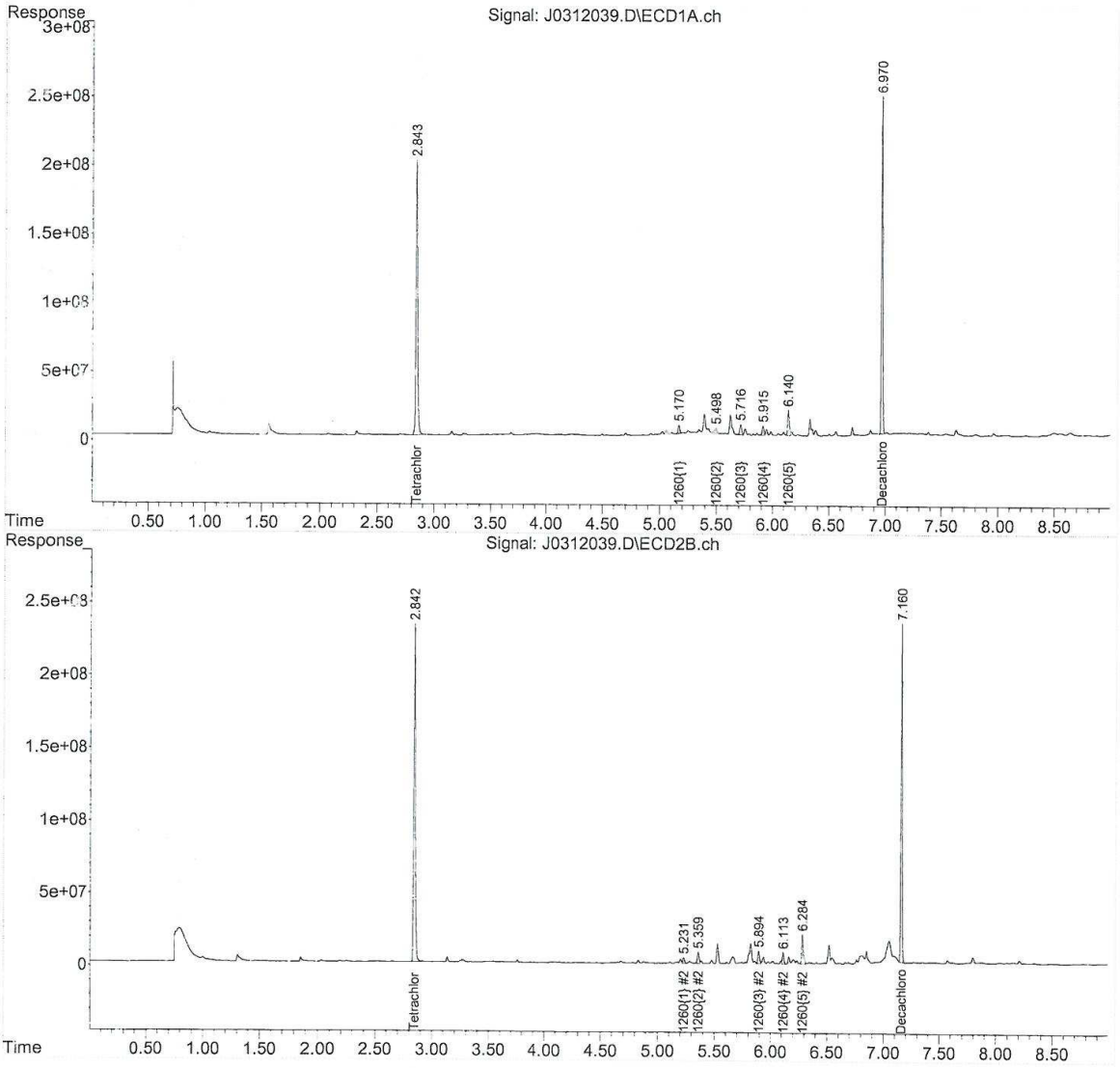
10-1260-022218C.M Tue Mar 13 12:58:58 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 1:16 pm
Operator : JMB
Sample : 18C0363-03@4X TBA Inst : ECD10
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:39:10 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



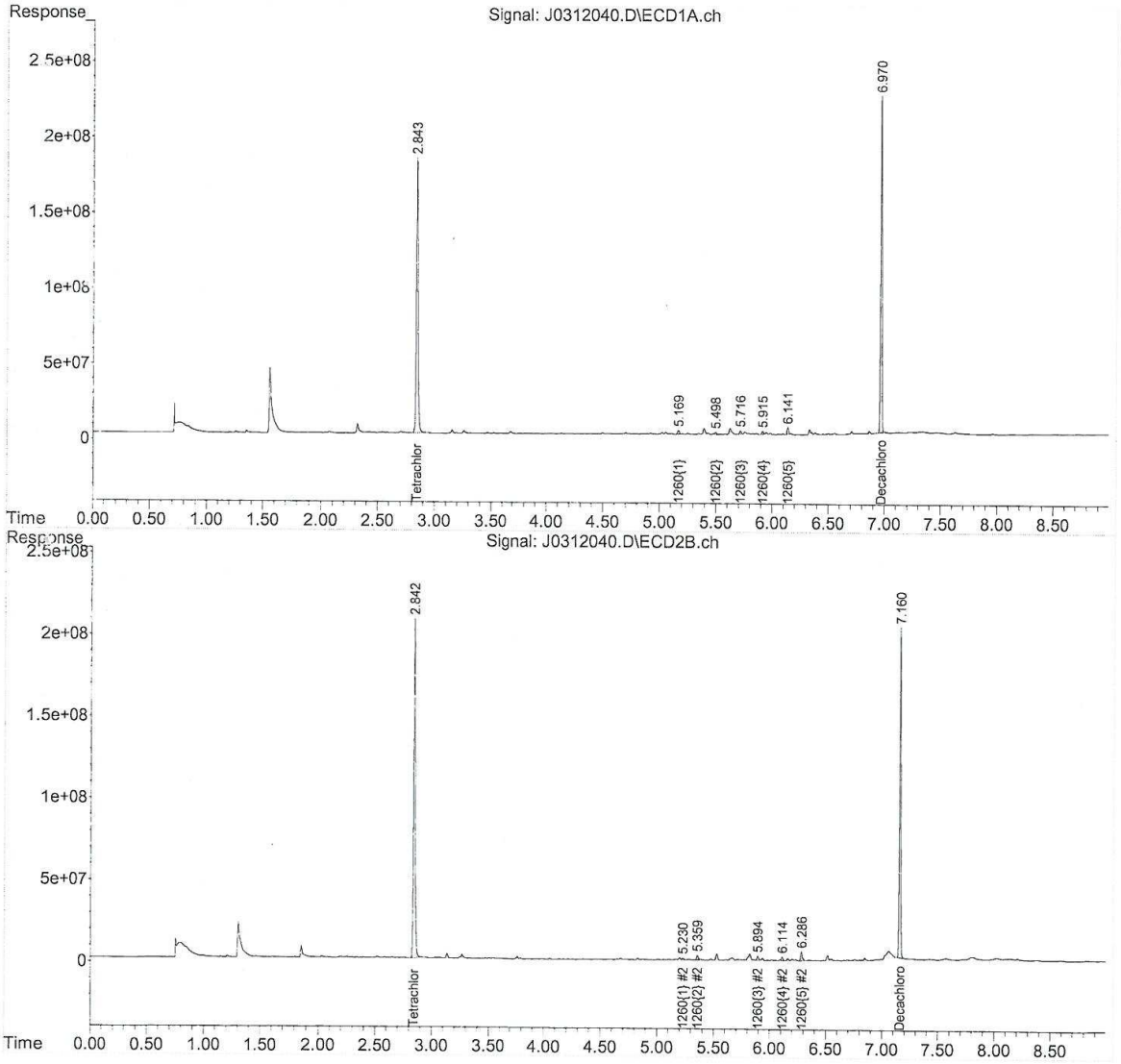
10-1260-022218C.M Tue Mar 13 13:00:20 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 1:28 pm
Operator : JMB
Sample : 18C0363-04@4X TBA Inst : ECD10
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:50:25 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



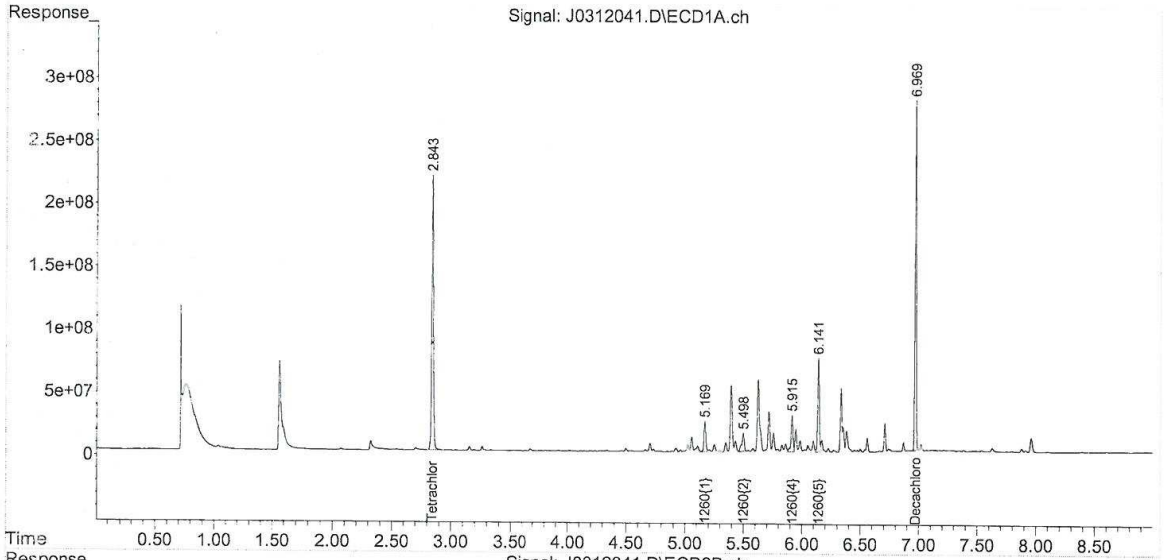
10-1260-022218C.M Tue Mar 13 13:00:37 2018

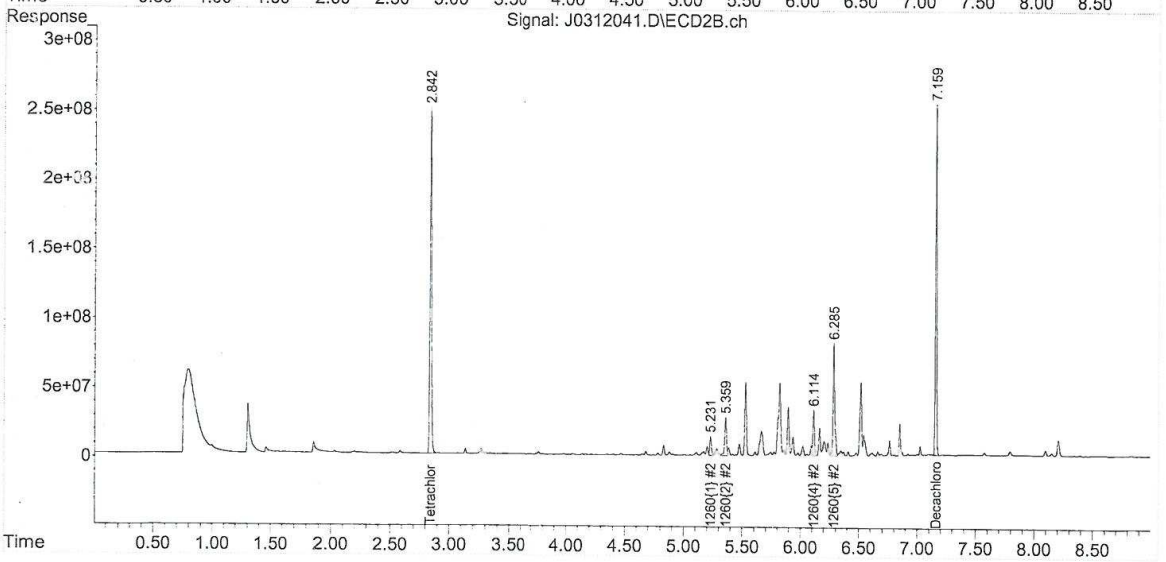
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 1:40 pm
Operator : JMB
Sample : 18C0363-05@4X TBA Inst : ECD10
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 13:03:26 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



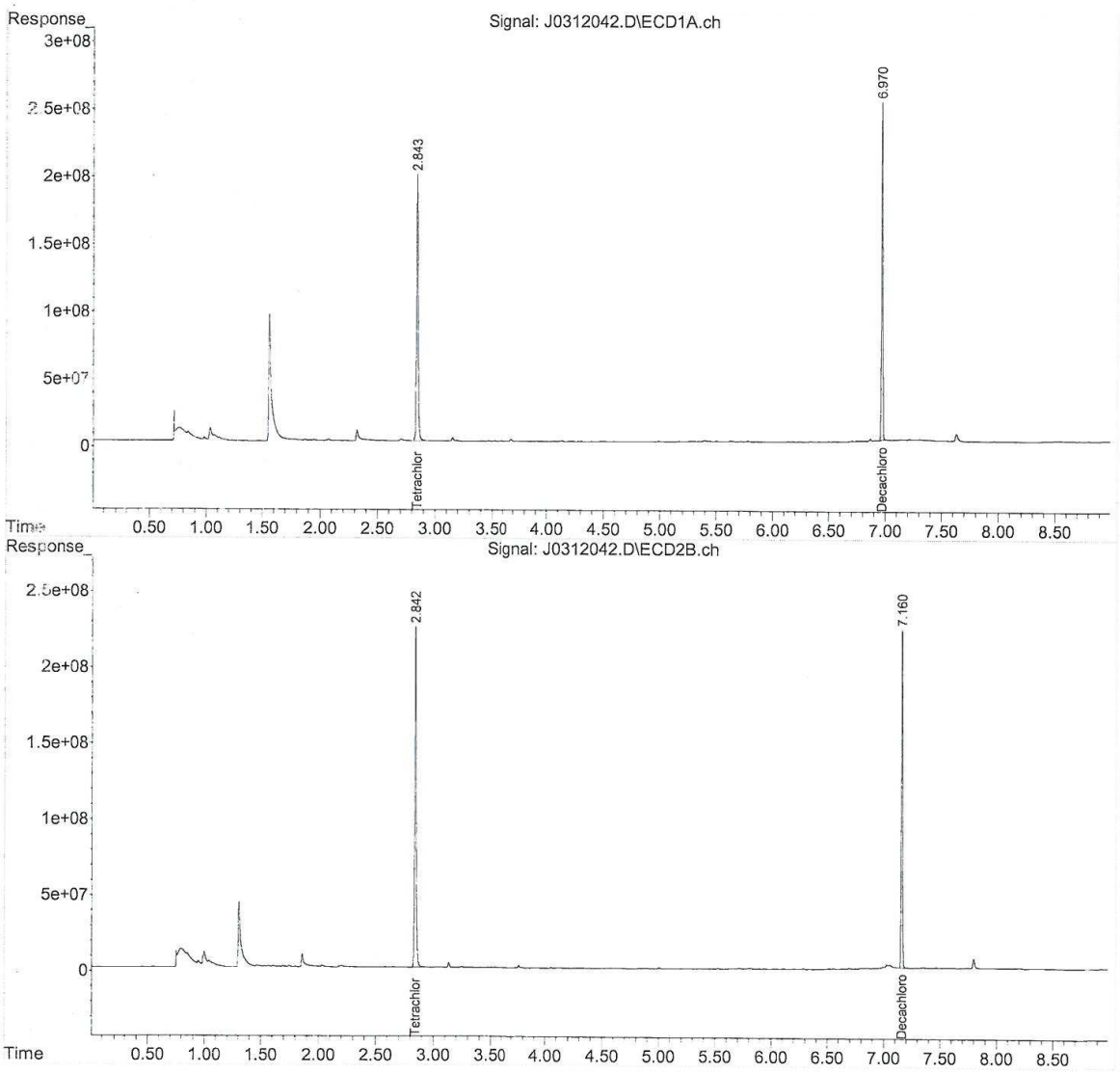


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 1:52 pm
Operator : JMB
Sample : 18C0363-06@4X TBA Inst : ECD10
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:41:22 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



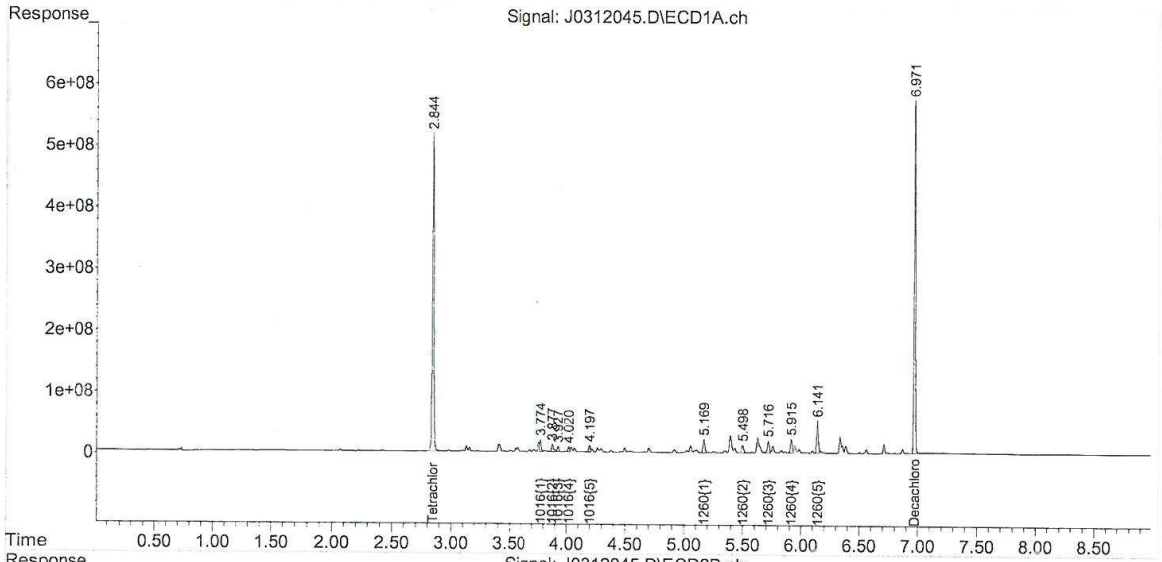
10-1260-022218C.M Tue Mar 13 13:05:29 2018

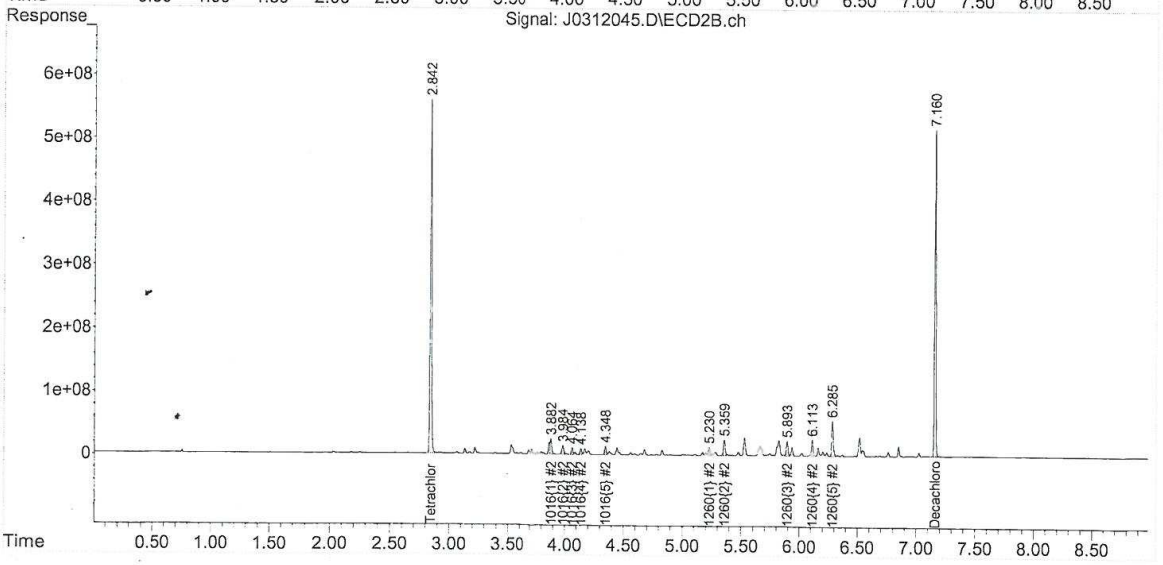
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 2:29 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD10
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:50:40 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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





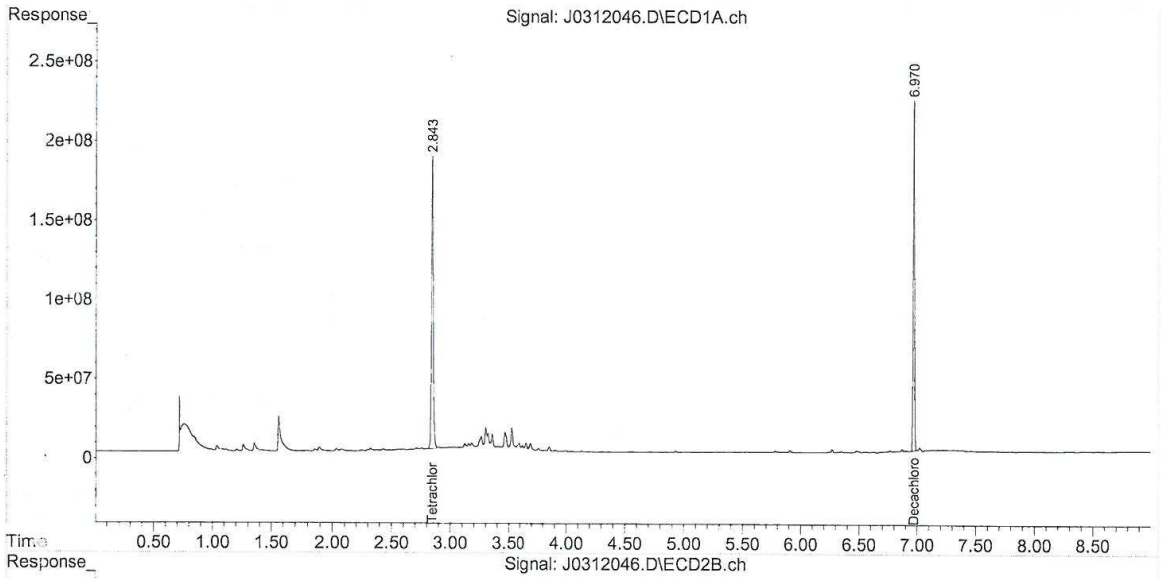
10-1260-022218C.M Tue Mar 13 13:11:27 2018

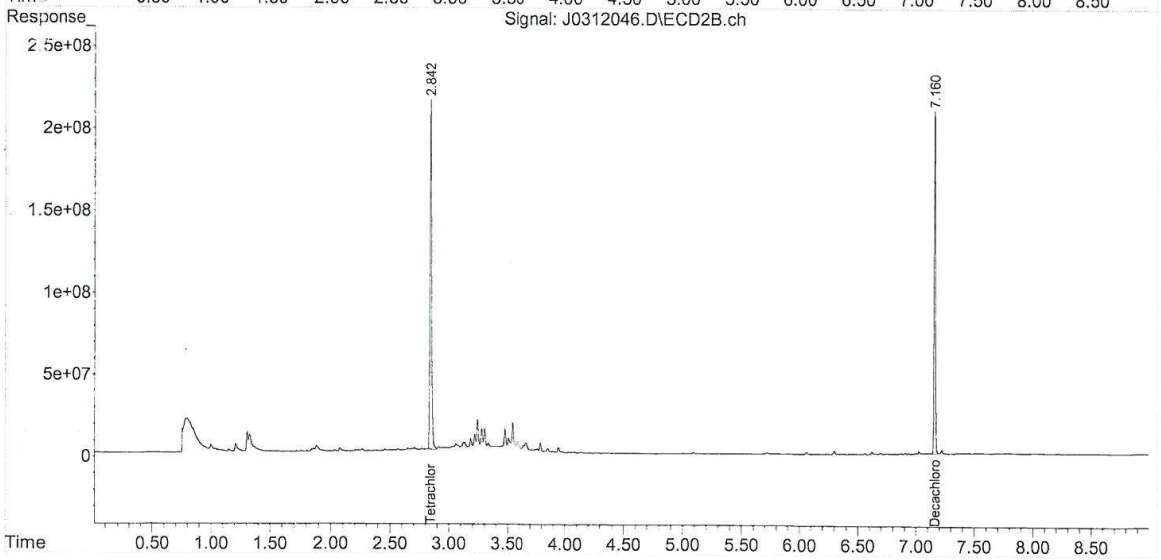
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 2:41 pm
Operator : JMB
Sample : 18C0363-07@4X TBA Inst : ECD10
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:42:16 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



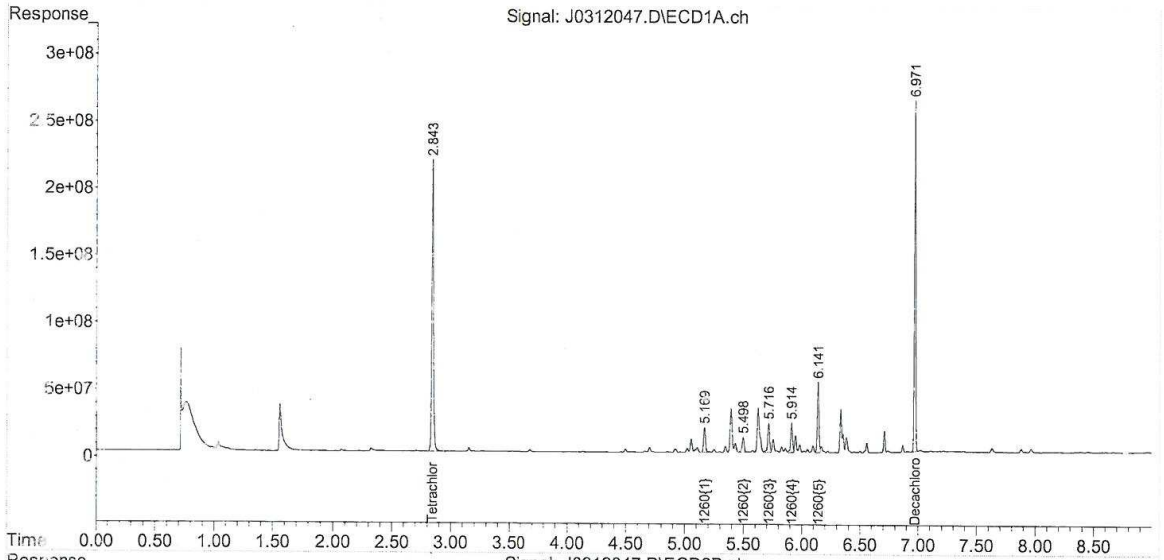


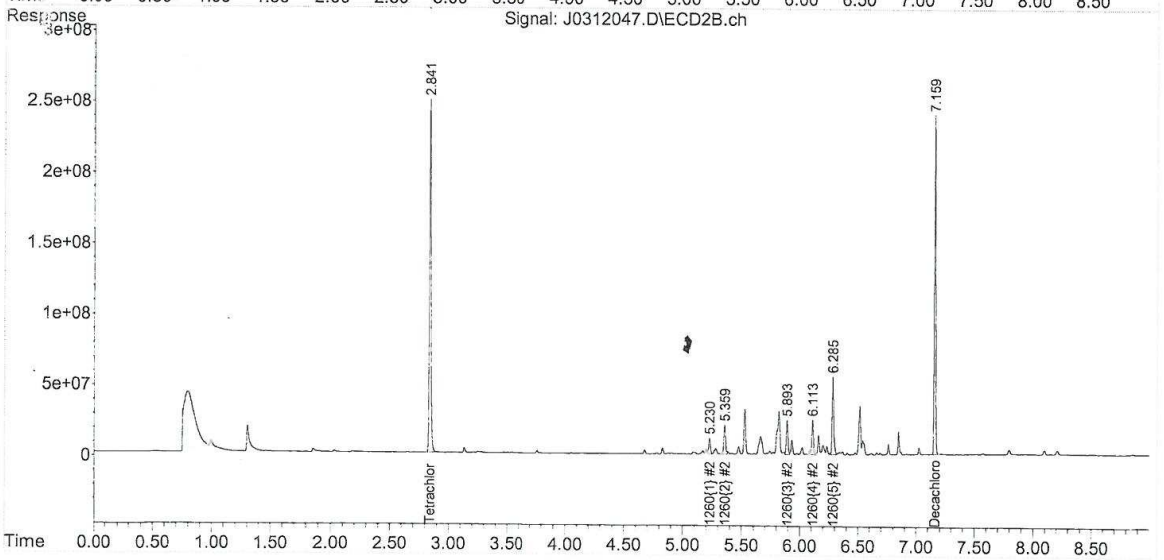
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 2:53 pm
Operator : JMB
Sample : 18C0363-08@4X TBA Inst : ECD10
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:42:53 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



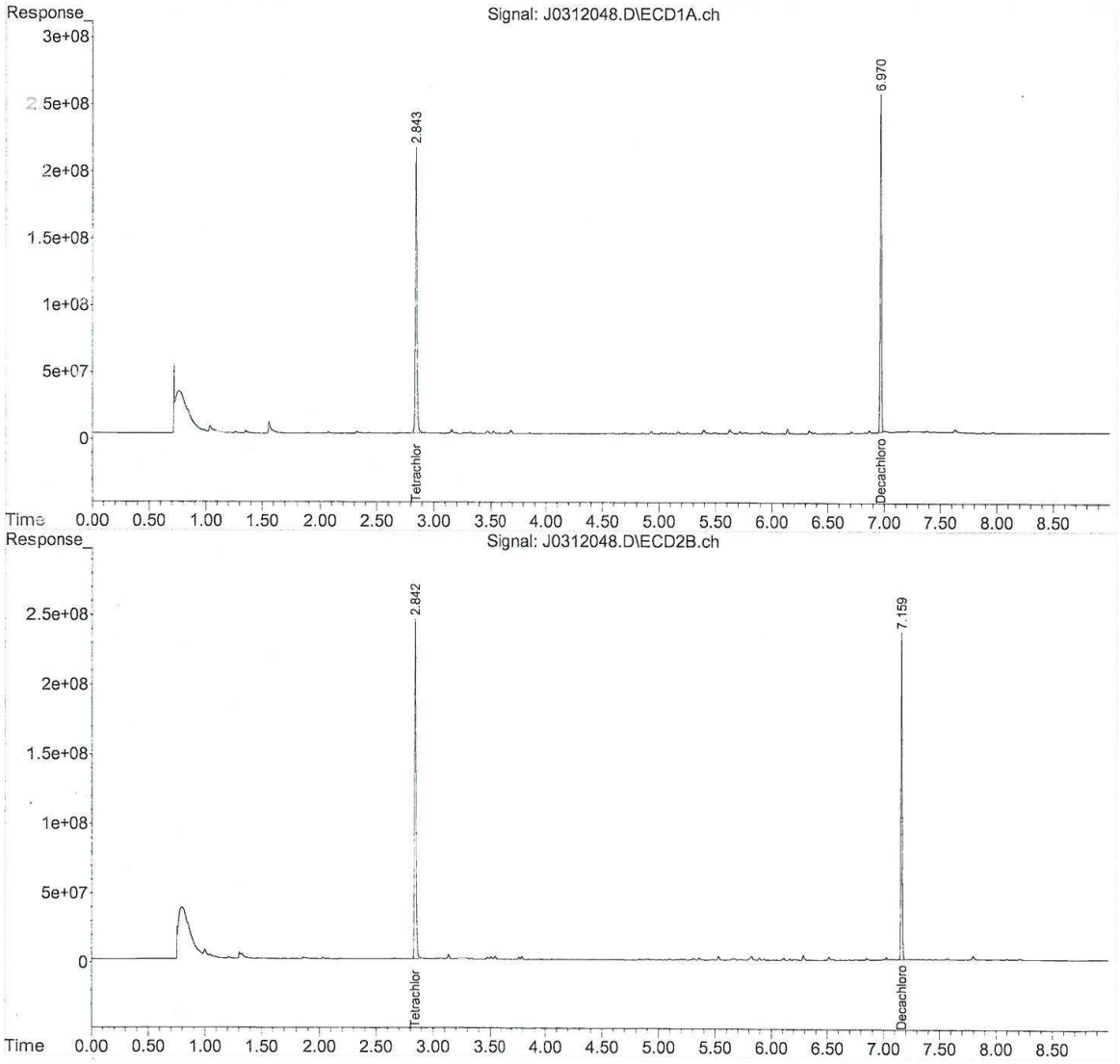


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 3:05 pm
Operator : JMB
Sample : 18C0363-09@4X TBA Inst : ECD10
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:43:27 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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

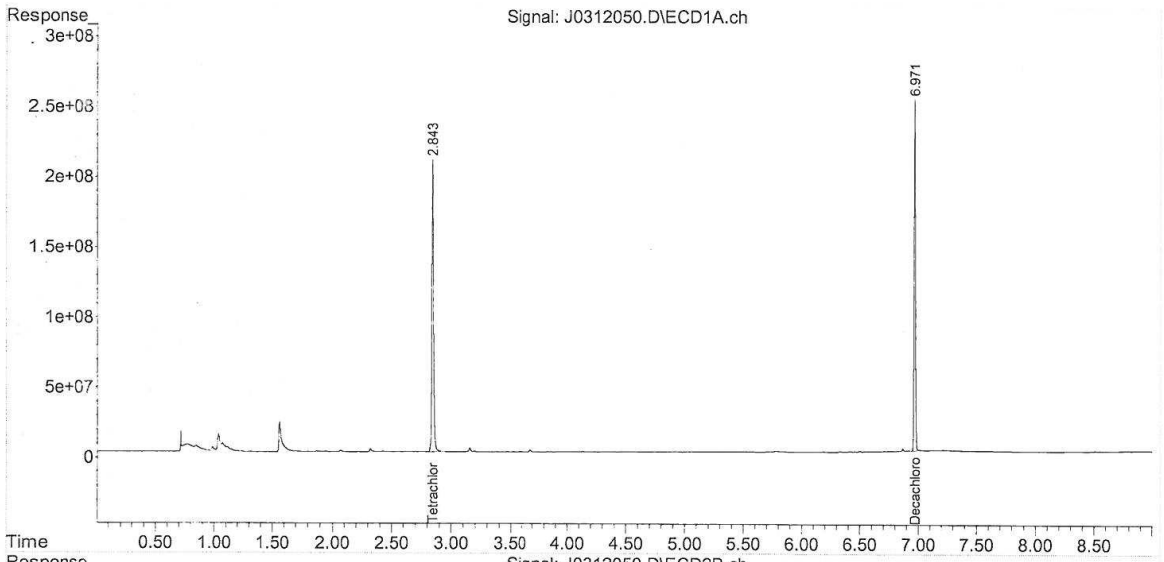


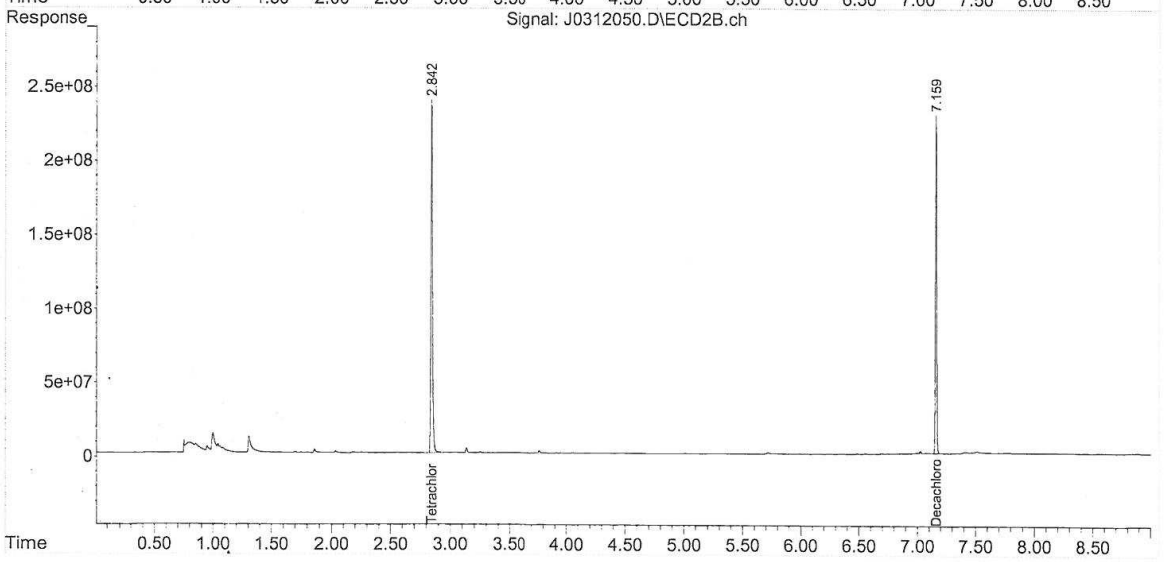
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312050.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 3:30 pm
Operator : JMB
Sample : 18C0363-10@4X TBA Inst : ECD10
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 11:44:16 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



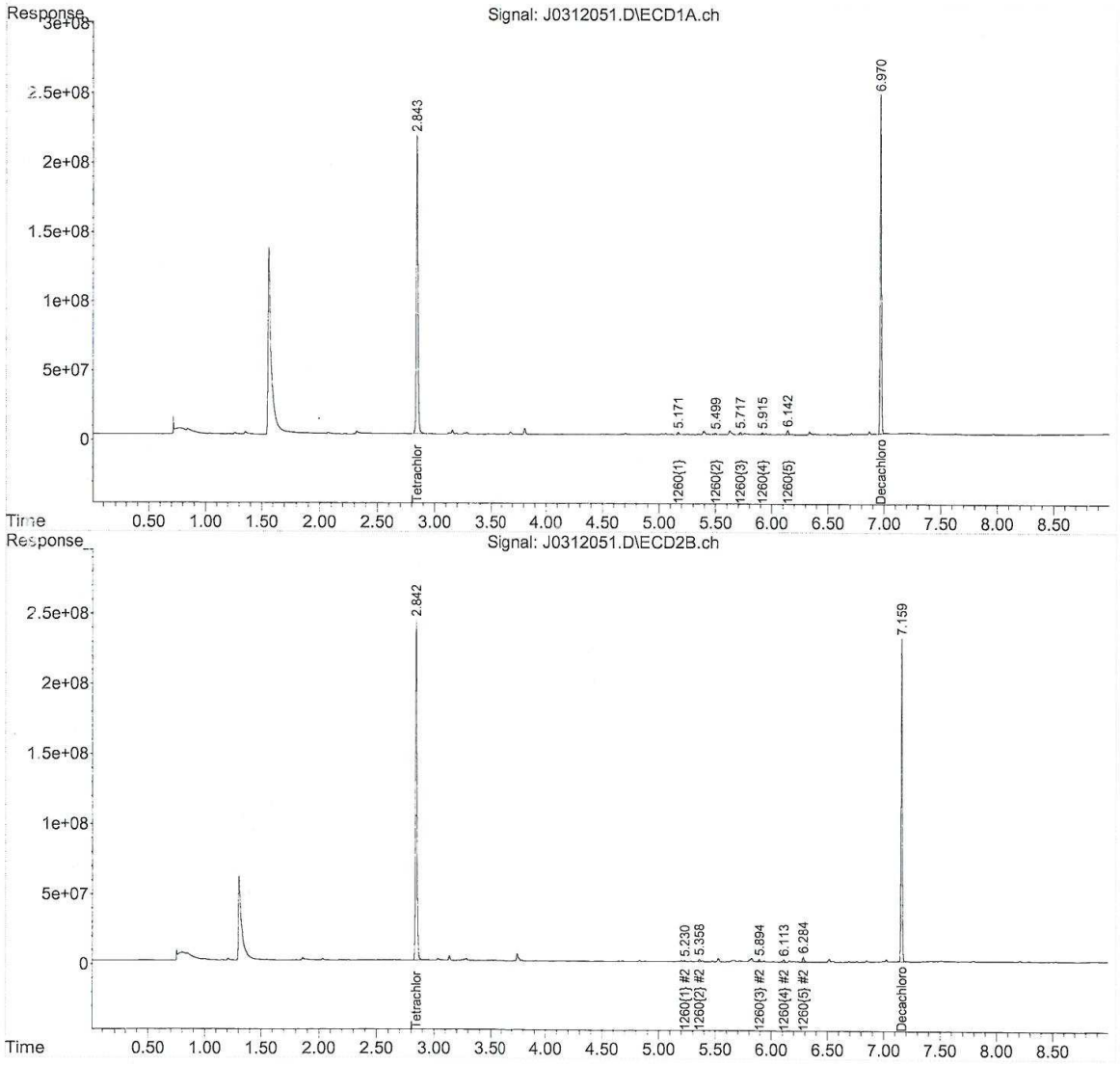


Quantitation Report (Not Reviewed)

```
Data Path : C:\msdchem\1\data\031218\
Data File : J0312051.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 12 Mar 2018    3:42 pm
Operator  : JMB
Sample    : 18C0363-11@4X TBA                          Inst    : ECD10
Misc      :
ALS Vial  : 51   Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:51:01 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title  : 1260/1016   02/22/18   01/19/18   ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



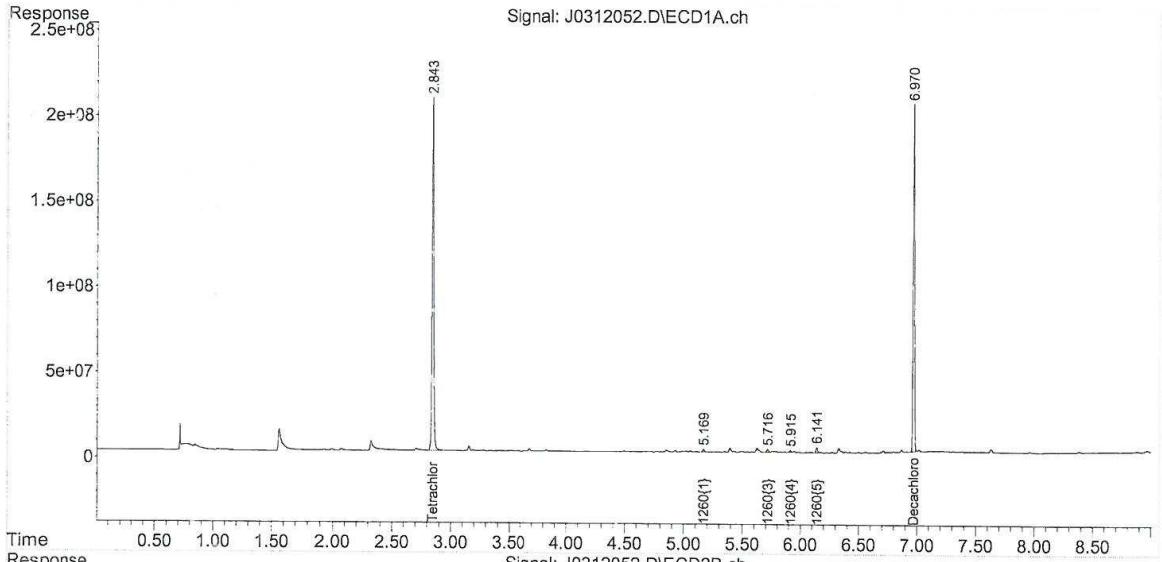
10-1260-022218C.M Tue Mar 13 13:08:53 2018

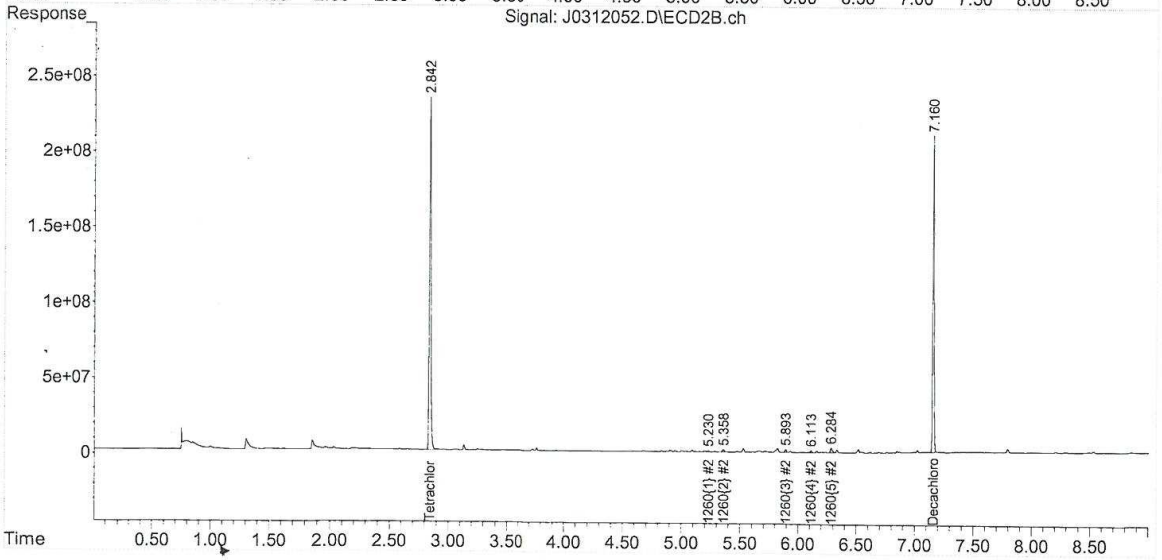
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 3:54 pm
Operator : JMB
Sample : 18C0363-12@4X TBA Inst : ECD10
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:51:04 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



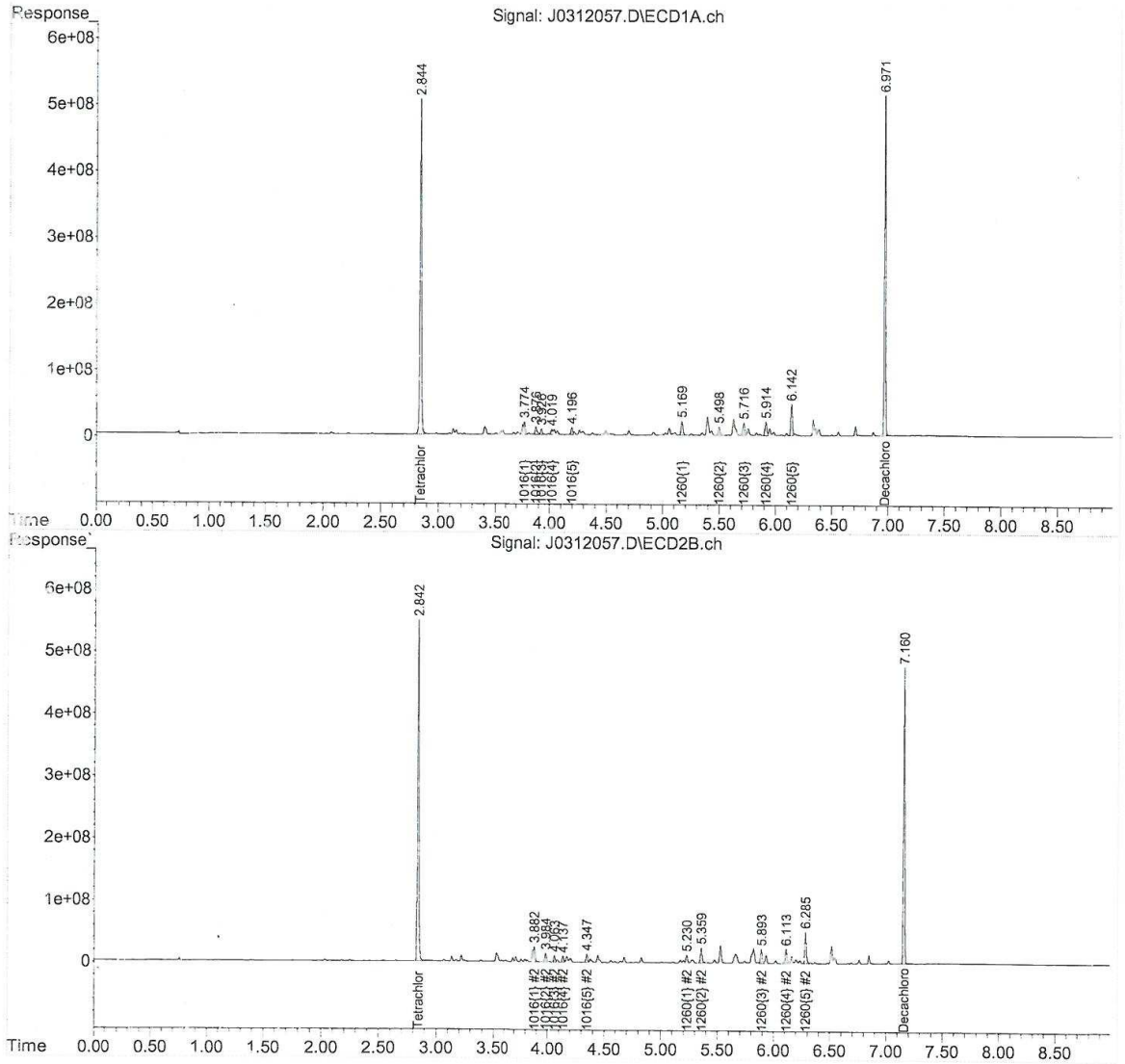


Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : J0312057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 4:55 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD10
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 12 17:51:21 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\10-1260-022218C.M
Quant Title : 1260/1016 02/22/18 01/19/18 ICAL 1800053
QLast Update : Fri Feb 23 12:35:04 2018
Response via : Initial Calibration
Integrator: ChemStation

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



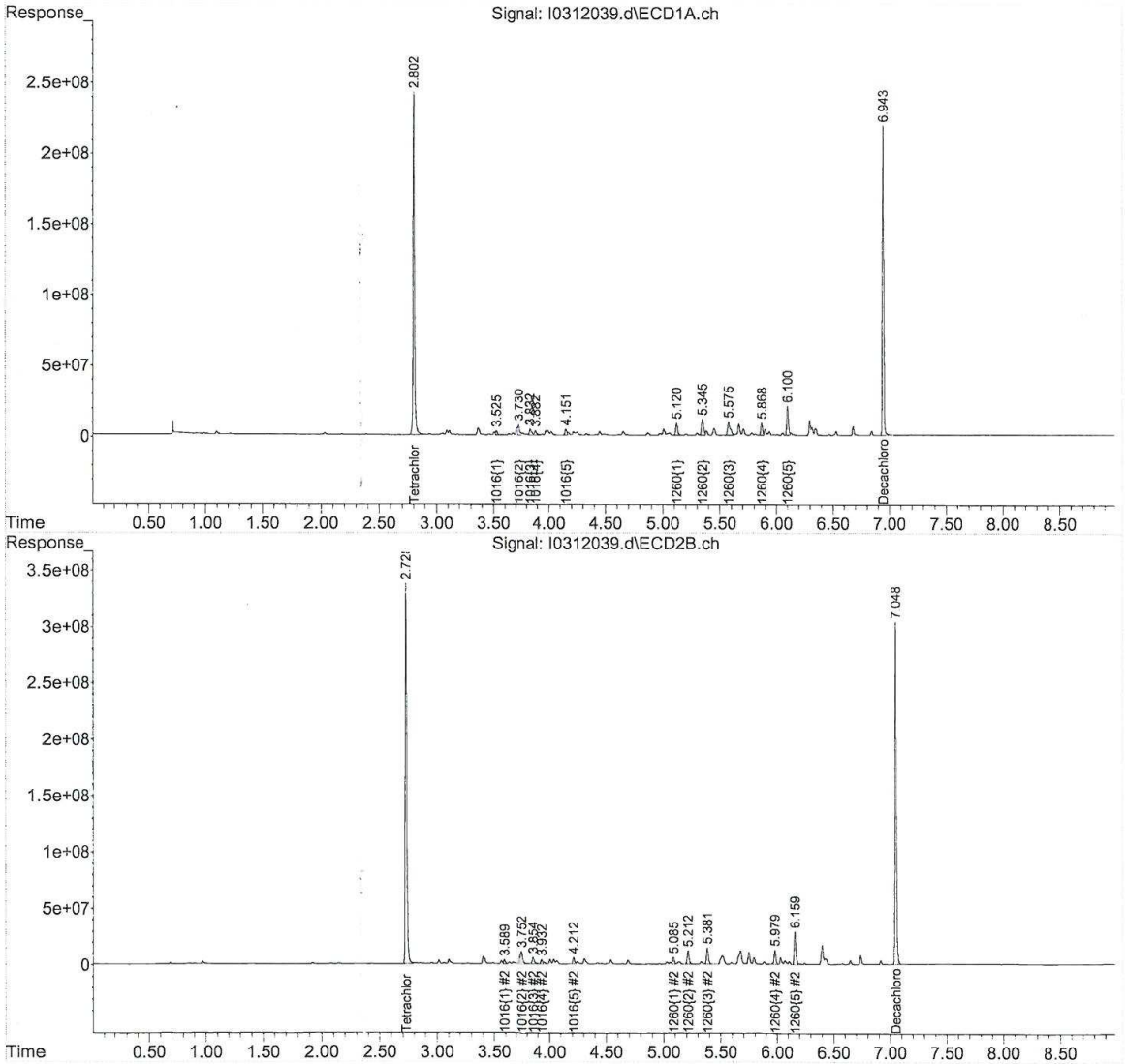
10-1260-022218C.M Tue Mar 13 13:11:03 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : I0312039.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 5:11 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD 9
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 07:50:25 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-030918.M
Quant Title : 1260/1016 02/08/18 01/19/18 ICAL 1800068
QLast Update : Fri Feb 09 08:43:35 2018
Response via : Initial Calibration
Integrator: ChemStation

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



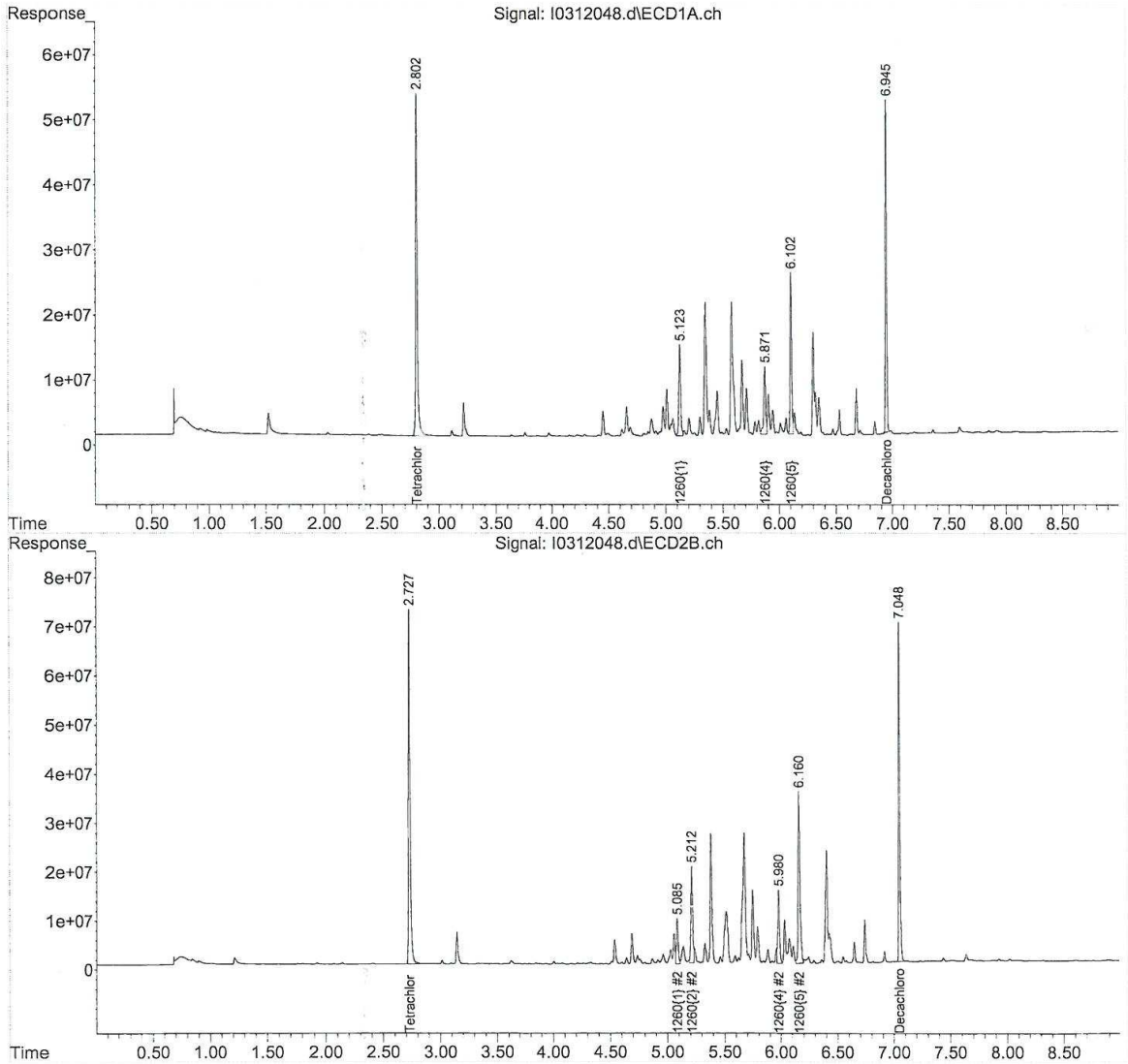
9-1260-030918.M Tue Mar 13 12:37:03 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : I0312048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 7:03 pm
Operator : JMB
Sample : 18C0363-14@8X TBA Inst : ECD 9
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 12:35:57 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-030918.M
Quant Title : 1260/1016 02/08/18 01/19/18 ICAL 1800068
QLast Update : Fri Feb 09 08:43:35 2018
Response via : Initial Calibration
Integrator: ChemStation

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



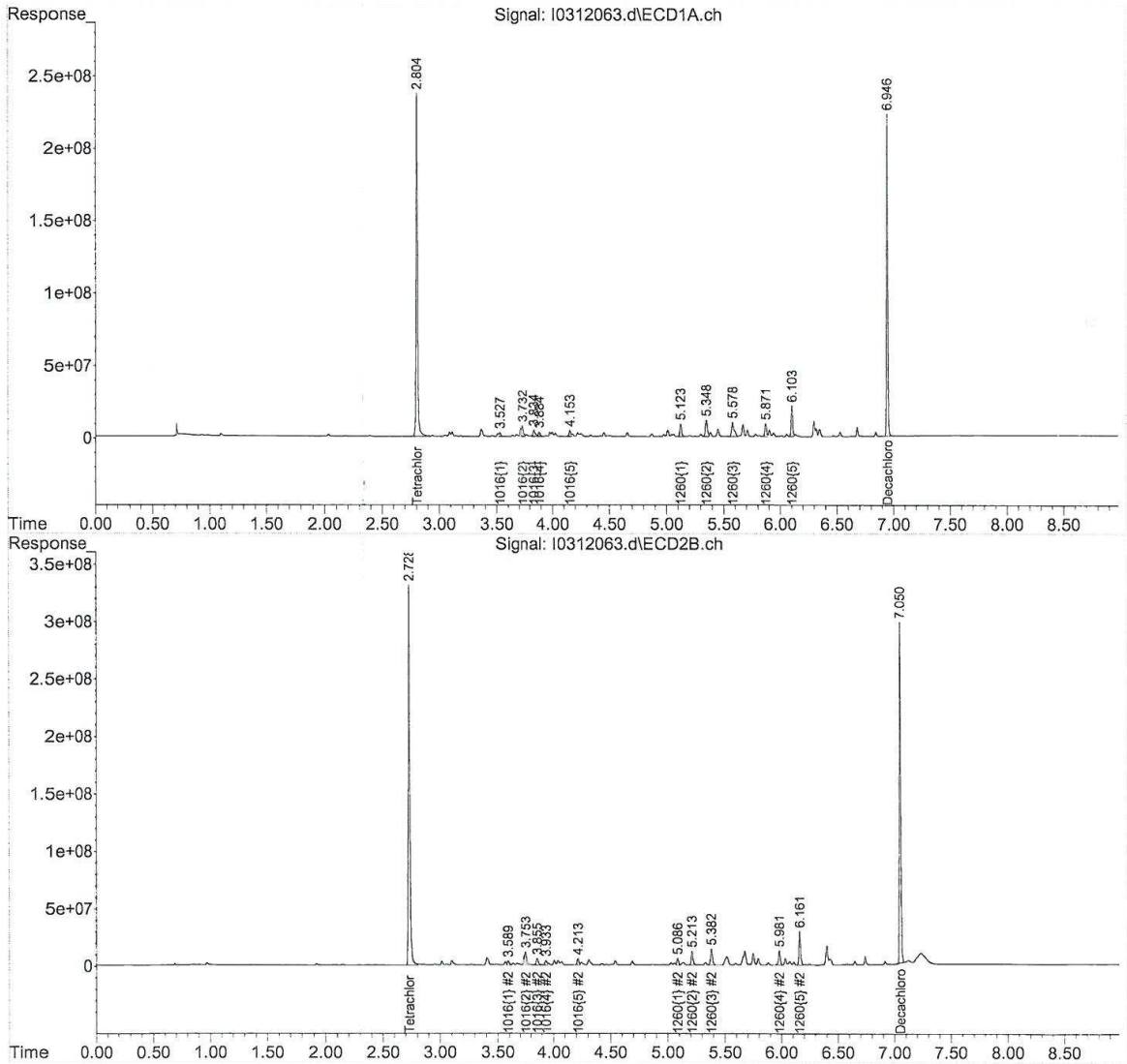
9-1260-030918.M Tue Mar 13 12:36:49 2018

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\031218\
Data File : I0312063.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2018 10:10 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD 9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: F-1260.E
Integration File signal 2: B-1260.E
Quant Time: Mar 13 07:58:49 2018
Quant Method : C:\msdchem\1\methods\PCB Methods\9-1260-030918.M
Quant Title : 1260/1016 02/08/18 01/19/18 ICAL 1800068
QLast Update : Fri Feb 09 08:43:35 2018
Response via : Initial Calibration
Integrator: ChemStation

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



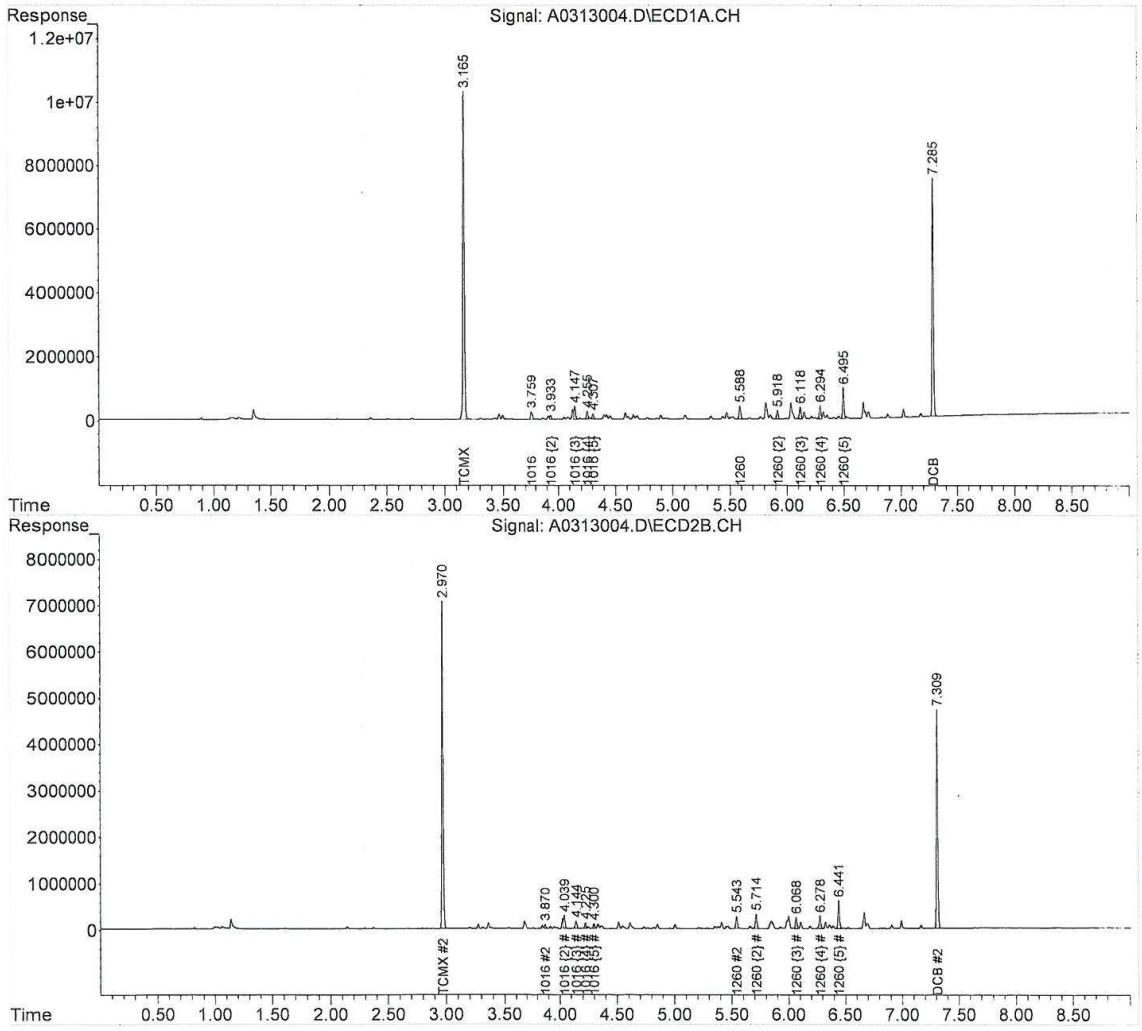
9-1260-030918.M Tue Mar 13 12:37:17 2018

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031318\
Data File : A0313004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Mar 2018 8:52 am
Operator : JMB
Sample : 1260/1016 100 Inst : HP G1530A
Misc : 1801221
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 13 10:13:23 2018
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

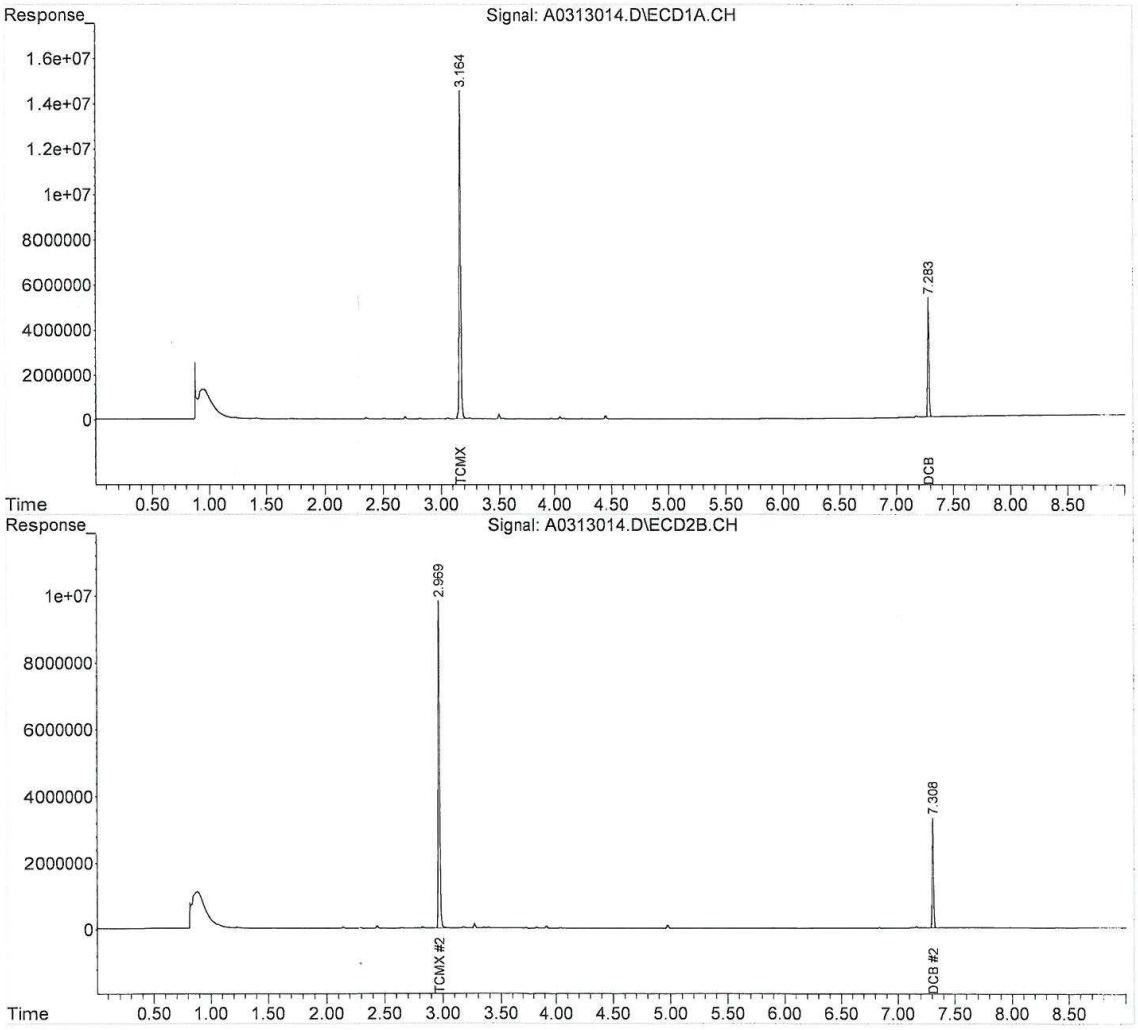


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031318\
Data File : A0313014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Mar 2018 11:14 am
Operator : JMB
Sample : 18C0363-17 Inst : HP G1530A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 13 12:21:47 2018
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

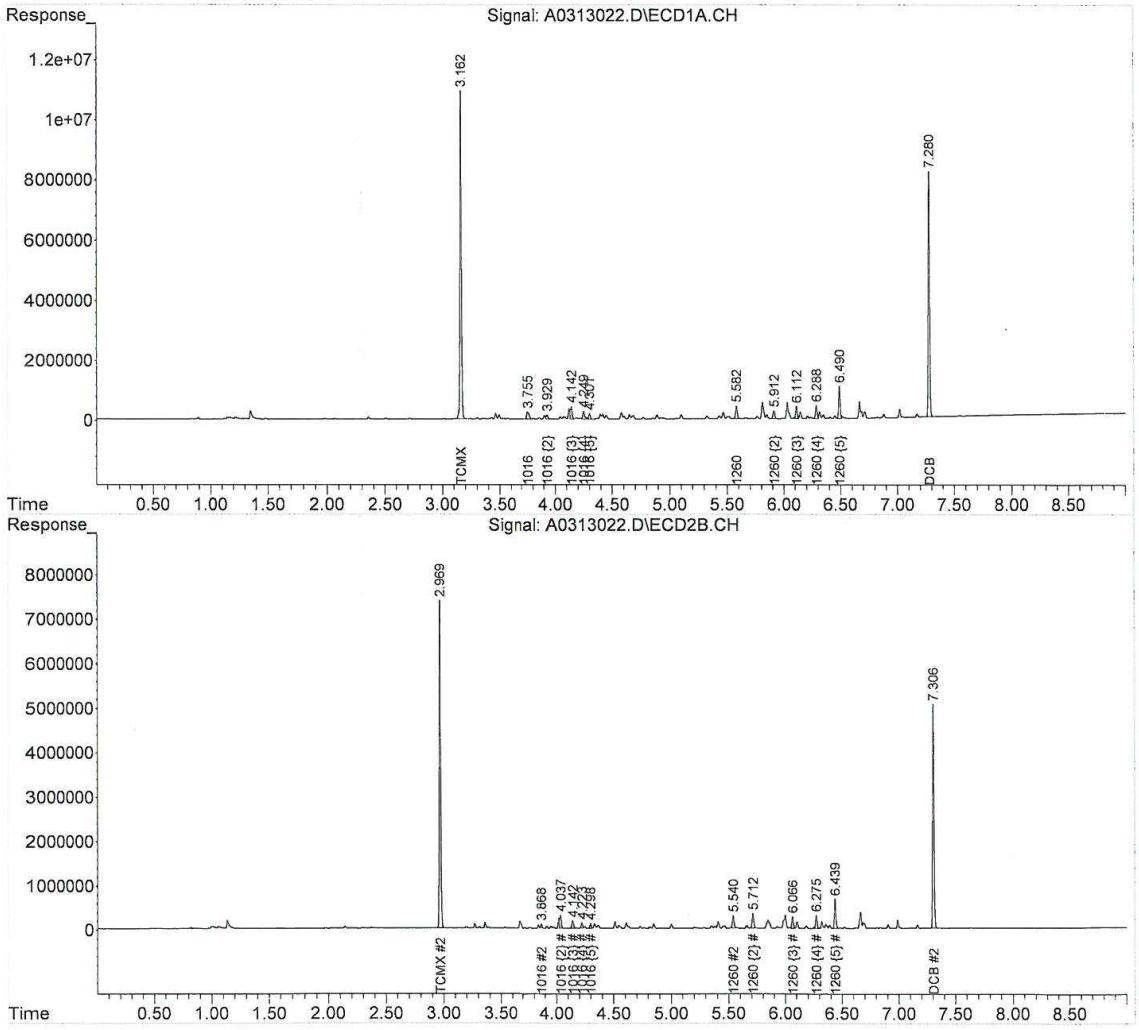


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031318\
Data File : A0313022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Mar 2018 1:12 pm
Operator : JMB
Sample : 1260/1016 100 Inst : HP G1530A
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 13 13:24:49 2018
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-031118.M
Quant Title : 1260/1016 03/06/17 01/19/18 ICAL 1800065
QLast Update : Mon Mar 12 06:33:54 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



1-1260-031118.M Tue Mar 13 13:25:49 2018 Page: 2

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: 18C0363

Laboratory Sample ID(s):

18C0363-01 thru 18C0363-17

Sample Date(s):

03/08/2018

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 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:** 03/13/18

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

March 21, 2018

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

Project Location: 107 Selden St., Berlin, CT
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18C0698

Enclosed are results of analyses for samples received by the laboratory on March 16, 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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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 3/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0698

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

PROJECT LOCATION: 107 Selden St., Berlin, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-232A (0-0.5)	18C0698-01	Soil		SM 2540G	
				SW-846 8082A	
B-232B (3-4)	18C0698-02	Soil		SM 2540G	
				SW-846 8082A	
B-232C (4-5)	18C0698-03	Soil		SM 2540G	
				SW-846 8082A	
B-230A (0-0.5)	18C0698-04	Soil		SM 2540G	
				SW-846 8082A	
B-230B (3-4)	18C0698-05	Soil		SM 2540G	
				SW-846 8082A	
B-230C (4-5)	18C0698-06	Soil		SM 2540G	
				SW-846 8082A	
B-231A (0-0.5)	18C0698-07	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.

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



Tod E. Kopyscinski
Laboratory Director

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

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232A (0-0.5) | Sampled: 3/16/2018 10:25

Sample ID: 18C0698-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 21:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.2	30-150		3/19/18 21:47
Decachlorobiphenyl [2]	75.2	30-150		3/19/18 21:47
Tetrachloro-m-xylene [1]	68.4	30-150		3/19/18 21:47
Tetrachloro-m-xylene [2]	69.7	30-150		3/19/18 21:47

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232A (0-0.5) | Sampled: 3/16/2018 10:25

Sample ID: 18C0698-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	3/19/18	3/20/18 8:22	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232B (3-4) | Sampled: 3/16/2018 10:30

Sample ID: 18C0698-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1260 [1]	0.092	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.8	30-150		3/19/18 22:05
Decachlorobiphenyl [2]	86.0	30-150		3/19/18 22:05
Tetrachloro-m-xylene [1]	77.5	30-150		3/19/18 22:05
Tetrachloro-m-xylene [2]	78.3	30-150		3/19/18 22:05

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232B (3-4) | Sampled: 3/16/2018 10:30

Sample ID: 18C0698-02

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	89.4		% Wt	1		SM 2540G	3/19/18	3/20/18 8:22	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232C (4-5) | Sampled: 3/16/2018 10:35

Sample ID: 18C0698-03

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	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		3/19/18 22:23
Decachlorobiphenyl [2]	87.6	30-150		3/19/18 22:23
Tetrachloro-m-xylene [1]	72.5	30-150		3/19/18 22:23
Tetrachloro-m-xylene [2]	80.6	30-150		3/19/18 22:23

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

Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-232C (4-5) | Sampled: 3/16/2018 10:35

Sample ID: 18C0698-03

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	88.2		% Wt	1		SM 2540G	3/19/18	3/20/18 8:22	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230A (0-0.5) | Sampled: 3/16/2018 10:36

Sample ID: 18C0698-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1260 [2]	0.31	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		3/19/18 22:41
Decachlorobiphenyl [2]	93.6	30-150		3/19/18 22:41
Tetrachloro-m-xylene [1]	74.8	30-150		3/19/18 22:41
Tetrachloro-m-xylene [2]	77.1	30-150		3/19/18 22:41

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230A (0-0.5) | Sampled: 3/16/2018 10:36

Sample ID: 18C0698-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	3/19/18	3/20/18 8:22	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230B (3-4) | Sampled: 3/16/2018 10:40

Sample ID: 18C0698-05

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	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1254 [2]	0.11	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 22:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		3/19/18 22:59
Decachlorobiphenyl [2]	83.4	30-150		3/19/18 22:59
Tetrachloro-m-xylene [1]	71.2	30-150		3/19/18 22:59
Tetrachloro-m-xylene [2]	76.9	30-150		3/19/18 22:59

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230B (3-4) | Sampled: 3/16/2018 10:40

Sample ID: 18C0698-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	3/19/18	3/20/18 8:23	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230C (4-5) | Sampled: 3/16/2018 10:45

Sample ID: 18C0698-06

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	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.2	30-150		3/19/18 23:16
Decachlorobiphenyl [2]	84.0	30-150		3/19/18 23:16
Tetrachloro-m-xylene [1]	60.3	30-150		3/19/18 23:16
Tetrachloro-m-xylene [2]	66.0	30-150		3/19/18 23:16

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-230C (4-5) | Sampled: 3/16/2018 10:45

Sample ID: 18C0698-06

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	88.2		% Wt	1		SM 2540G	3/19/18	3/20/18 8:23	MRL

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-231A (0-0.5) | Sampled: 3/16/2018 12:20

Sample ID: 18C0698-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1260 [2]	0.49	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	3/17/18	3/19/18 23:34	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.9	30-150		3/19/18 23:34
Decachlorobiphenyl [2]	80.5	30-150		3/19/18 23:34
Tetrachloro-m-xylene [1]	71.1	30-150		3/19/18 23:34
Tetrachloro-m-xylene [2]	73.2	30-150		3/19/18 23:34

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Project Location: 107 Selden St., Berlin, CT | Sample Description: | Work Order: 18C0698

Date Received: 3/16/2018

Field Sample #: B-231A (0-0.5) | Sampled: 3/16/2018 12:20

Sample ID: 18C0698-07

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	75.6		% Wt	1		SM 2540G	3/19/18	3/20/18 8:23	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18C0698-01 [B-232A (0-0.5)]	B199060	03/19/18
18C0698-02 [B-232B (3-4)]	B199060	03/19/18
18C0698-03 [B-232C (4-5)]	B199060	03/19/18
18C0698-04 [B-230A (0-0.5)]	B199060	03/19/18
18C0698-05 [B-230B (3-4)]	B199060	03/19/18
18C0698-06 [B-230C (4-5)]	B199060	03/19/18
18C0698-07 [B-231A (0-0.5)]	B199060	03/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0698-01 [B-232A (0-0.5)]	B199001	10.2	10.0	03/17/18
18C0698-02 [B-232B (3-4)]	B199001	10.1	10.0	03/17/18
18C0698-03 [B-232C (4-5)]	B199001	10.3	10.0	03/17/18
18C0698-04 [B-230A (0-0.5)]	B199001	10.0	10.0	03/17/18
18C0698-05 [B-230B (3-4)]	B199001	10.3	10.0	03/17/18
18C0698-06 [B-230C (4-5)]	B199001	10.0	10.0	03/17/18
18C0698-07 [B-231A (0-0.5)]	B199001	10.0	10.0	03/17/18

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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 B199001 - SW-846 3540C										
Blank (B199001-BLK1)				Prepared: 03/17/18 Analyzed: 03/19/18						
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	*0.197*		mg/Kg wet	0.200		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		79.9	30-150			
LCS (B199001-BS1)				Prepared: 03/17/18 Analyzed: 03/19/18						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.5	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.1	40-140			
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg wet	0.200		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		72.9	30-150			
LCS Dup (B199001-BSD1)				Prepared: 03/17/18 Analyzed: 03/19/18						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.2	40-140	7.51	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.5	40-140	7.44	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.4	40-140	7.57	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.8	40-140	7.51	30	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.153*		mg/Kg wet	0.200		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		80.8	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-232B (3-4)

Lab Sample ID: 18C0698-02 Date(s) Analyzed: 03/19/2018 03/19/2018

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	0.092	
	2	0.000	-0.030	0.030	0.090	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-230A (0-0.5)

Lab Sample ID: 18C0698-04 Date(s) Analyzed: 03/19/2018 03/19/2018

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	0.24	
	2	0.000	-0.030	0.030	0.31	25.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

B-231A (0-0.5)

Lab Sample ID: 18C0698-07 Date(s) Analyzed: 03/19/2018 03/19/2018

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	0.43	
	2	0.000	-0.030	0.030	0.49	13.0

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
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	02/5/2019
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

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18C0698

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Weston & Sampson
Address: 273 Dividend Road Rocky Hill 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 Paglucia

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Paglucia@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	# of Containers	[2] Preservation Code	[3] Container Code
01	B-232A (0-0.5)	3/16/18	1025		X	S	U	1	I	A
02	B-232B (3-4)		1030					1	I	A
03	B-232C (4-5)		1035					1	I	A
04	B-230A (0-0.5)		1036					1	I	A
05	B-230B (3-4)		1040					1	I	A
06	B-230C (4-5)		1045					1	I	A
07	B-231A (0-0.5)	↓	1220		↓	↓	↓	1	I	A

ANALYSIS REQUESTED

PCB ONLY

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please 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: 3/16/18
Received by: (signature)	Date/Time: 3/16/18 4:00
Relinquished by: (signature)	Date/Time: 3/16/18
Received by: (signature)	Date/Time: 3/16/18 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT GA PMC
RIC RES DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY www.contestlabs.com
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

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By RLF Date 3/16/18 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 3.2°C
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	7
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

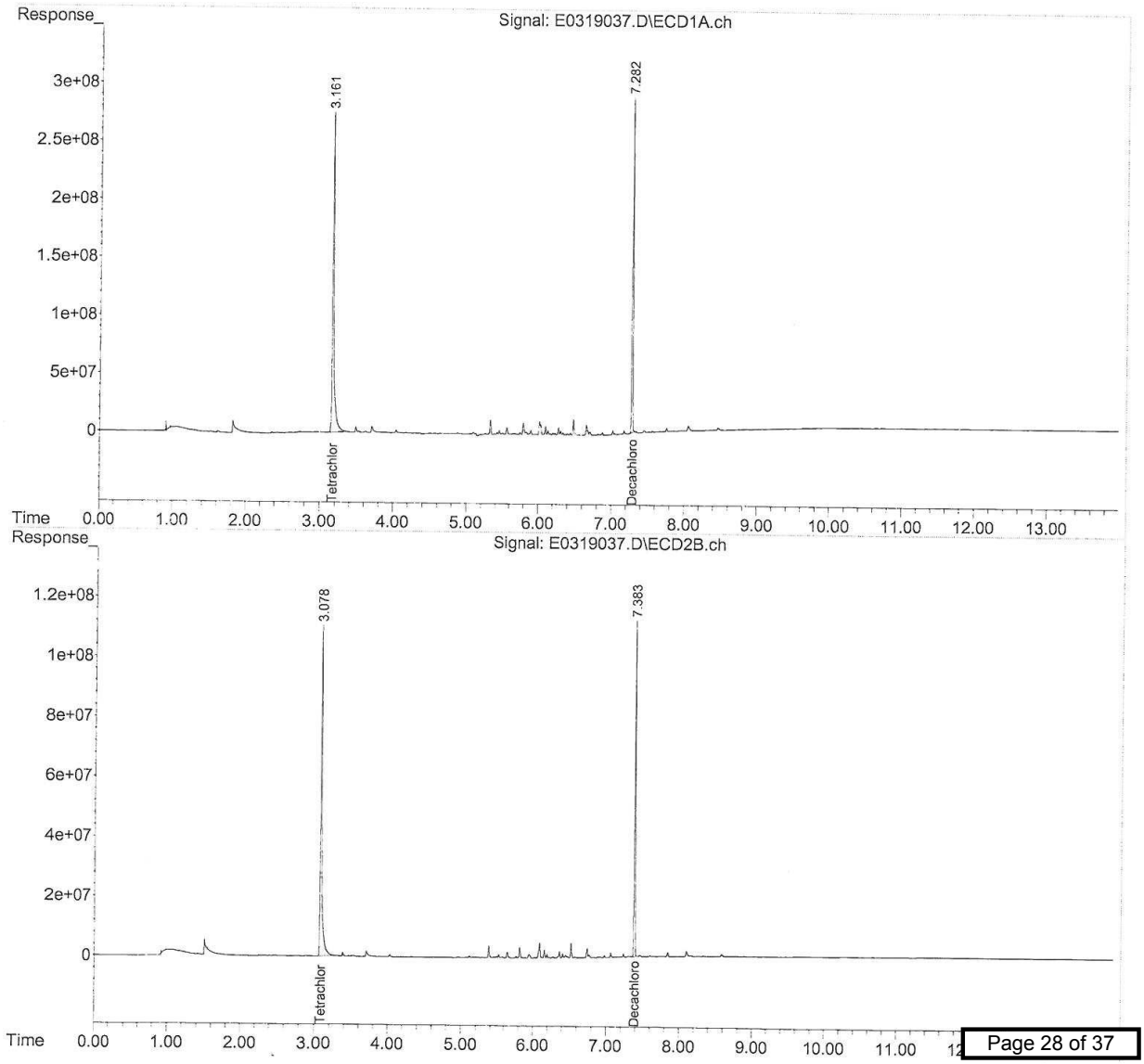
Comments:

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 9:47 pm
Operator : JMB
Sample : 18C0698-01@4X TBA Inst : ECD 5
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 13:54:31 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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

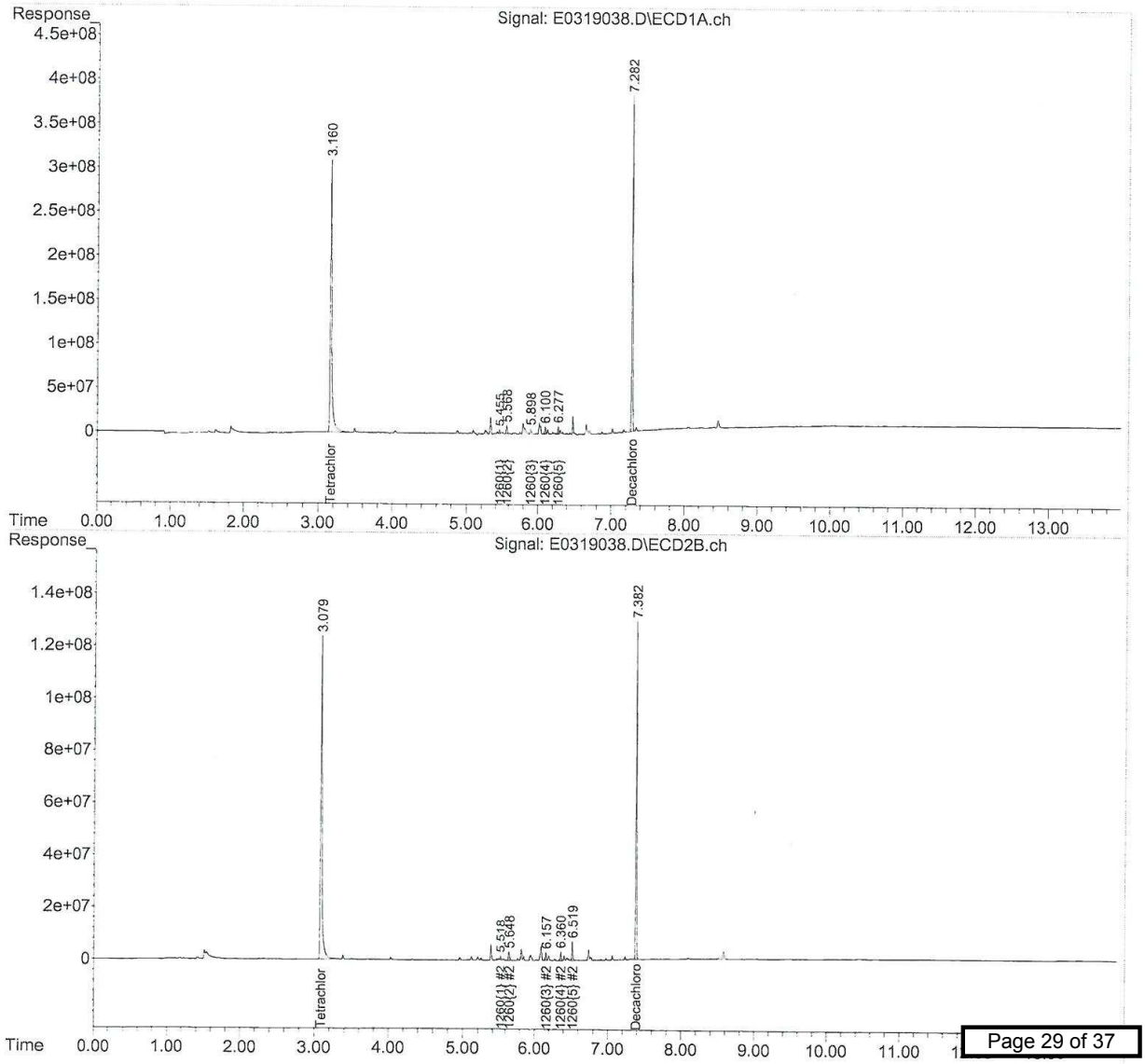


Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319038.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 19 Mar 2018  10:05 pm
Operator  : JMB
Sample    : 18C0698-02@4X TBA                    Inst    : ECD 5
Misc      :
ALS Vial  : 38   Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 13:56:16 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title  : 1260/1016   03/03/18   01/19/18   ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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

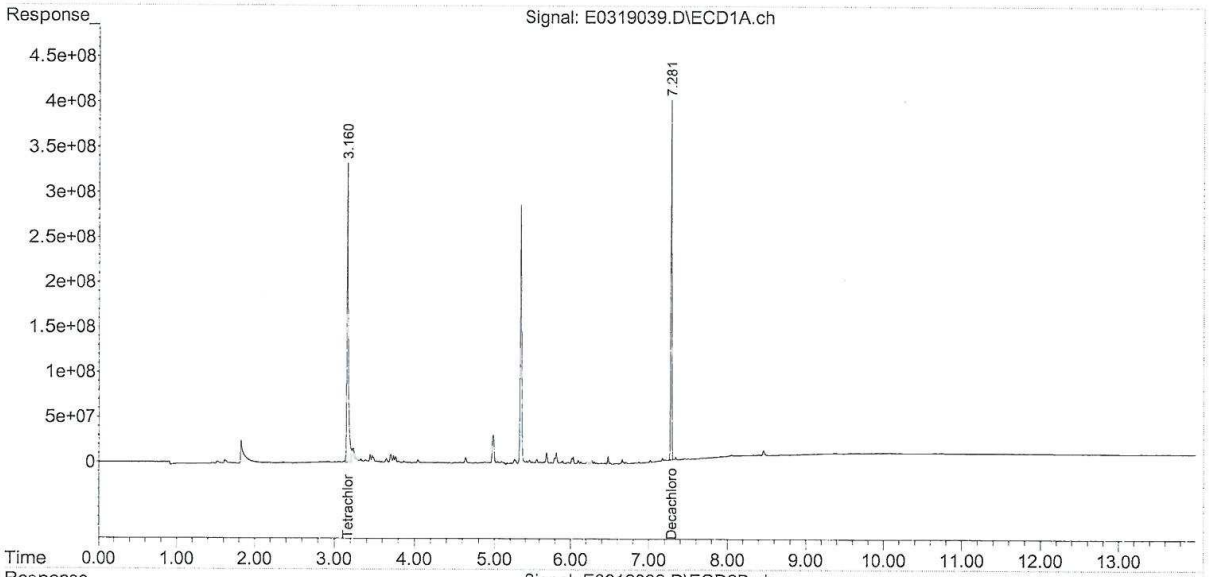


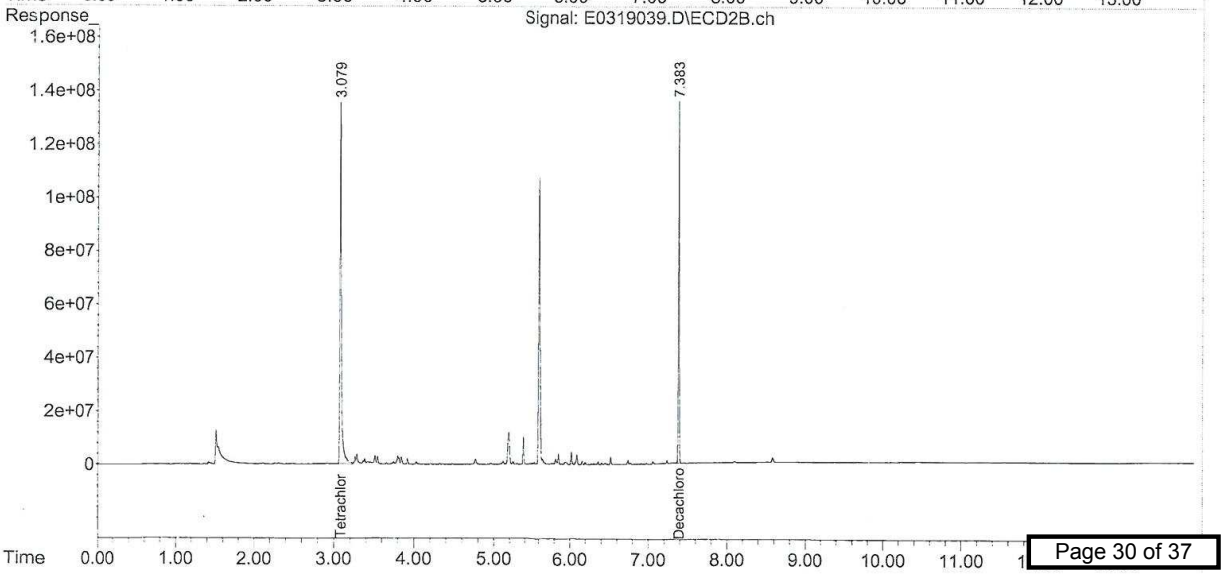
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319039.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 19 Mar 2018  10:23 pm
Operator  : JMB
Sample    : 18C0698-03@4X TBA                          Inst    : ECD 5
Misc      :
ALS Vial  : 39   Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 13:58:15 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title  : 1260/1016   03/03/18   01/19/18   ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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



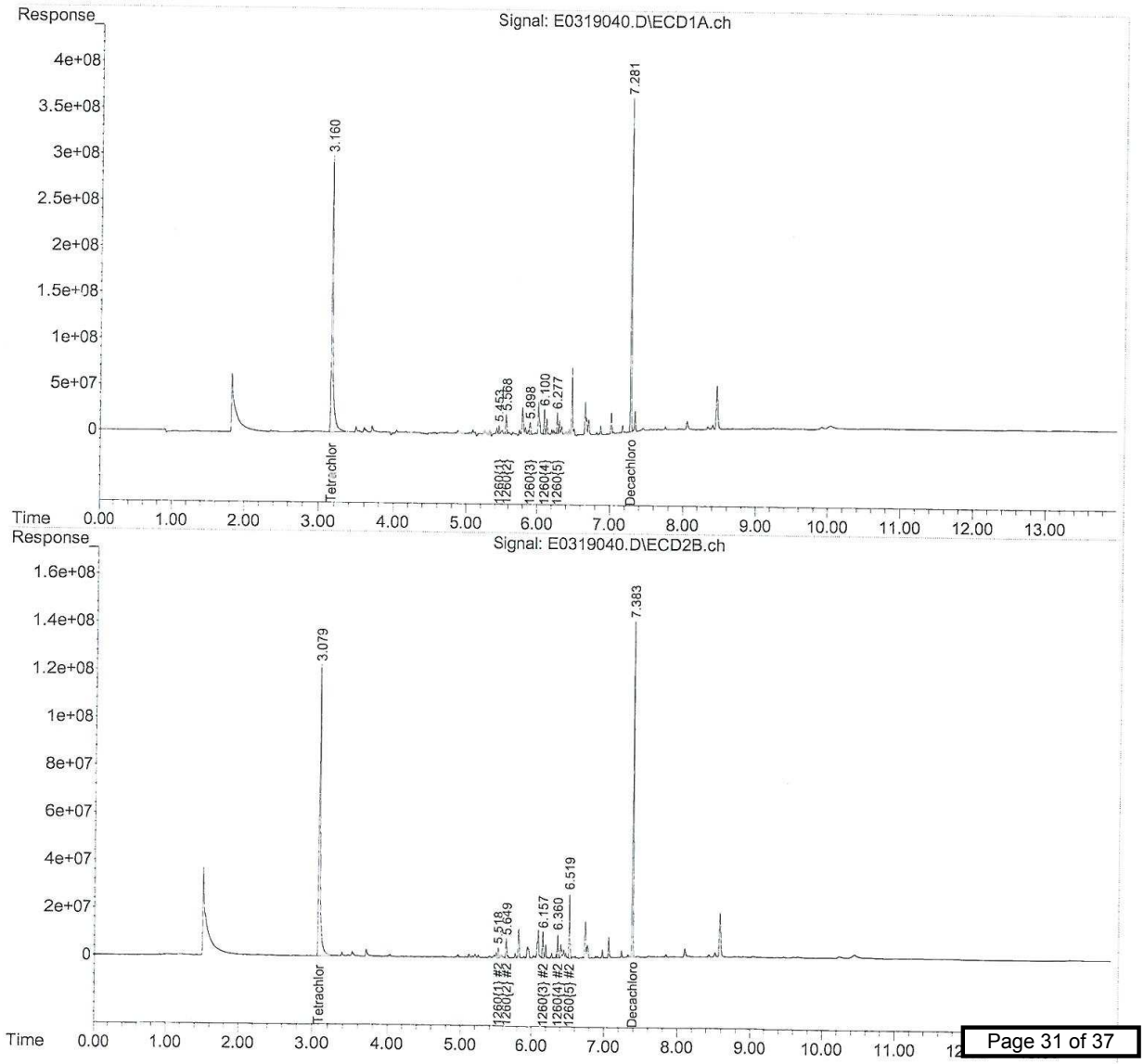


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 10:41 pm
Operator : JMB
Sample : 18C0698-04@4X TBA Inst : ECD 5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 14:00:46 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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

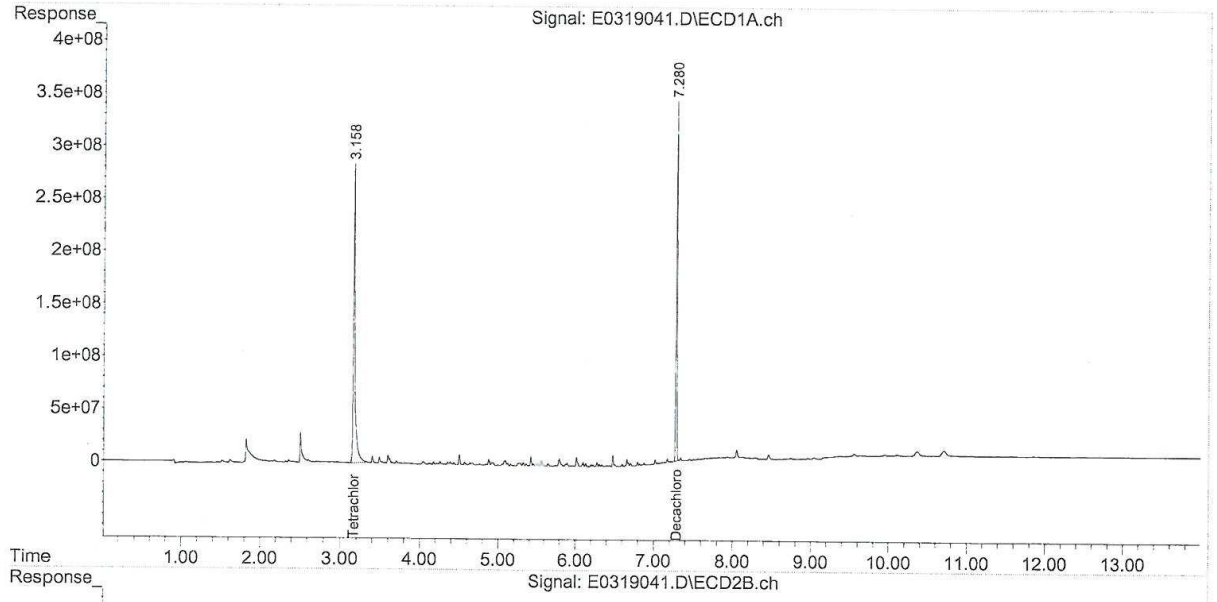


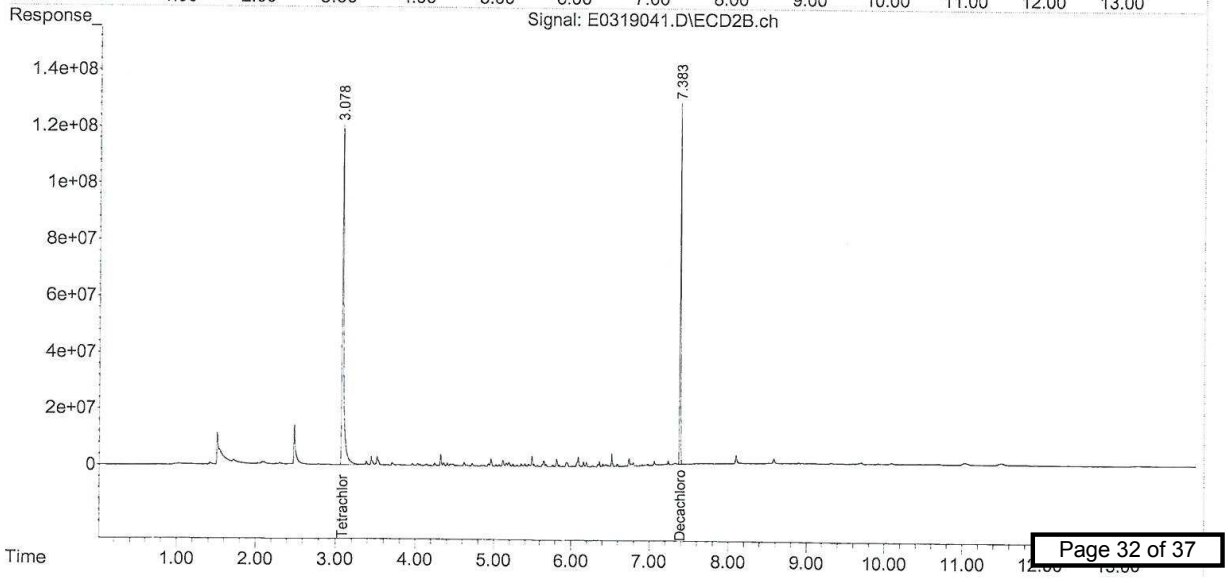
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 10:59 pm
Operator : JMB
Sample : 18C0698-05@4X TBA Inst : ECD 5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 14:03:48 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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



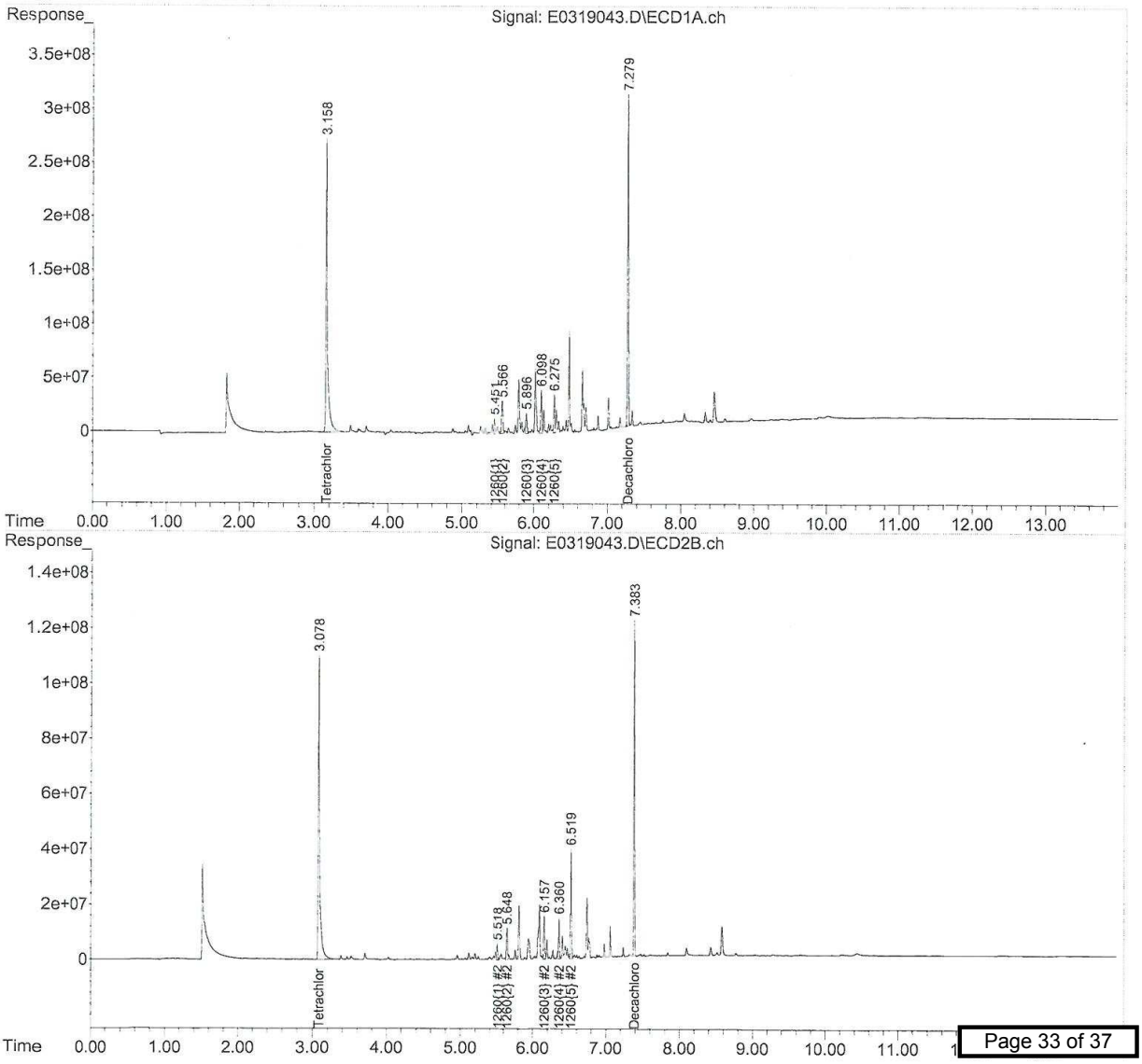


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 11:34 pm
Operator : JMB
Sample : 18C0698-07@4X TBA Inst : ECD 5
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 14:06:18 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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

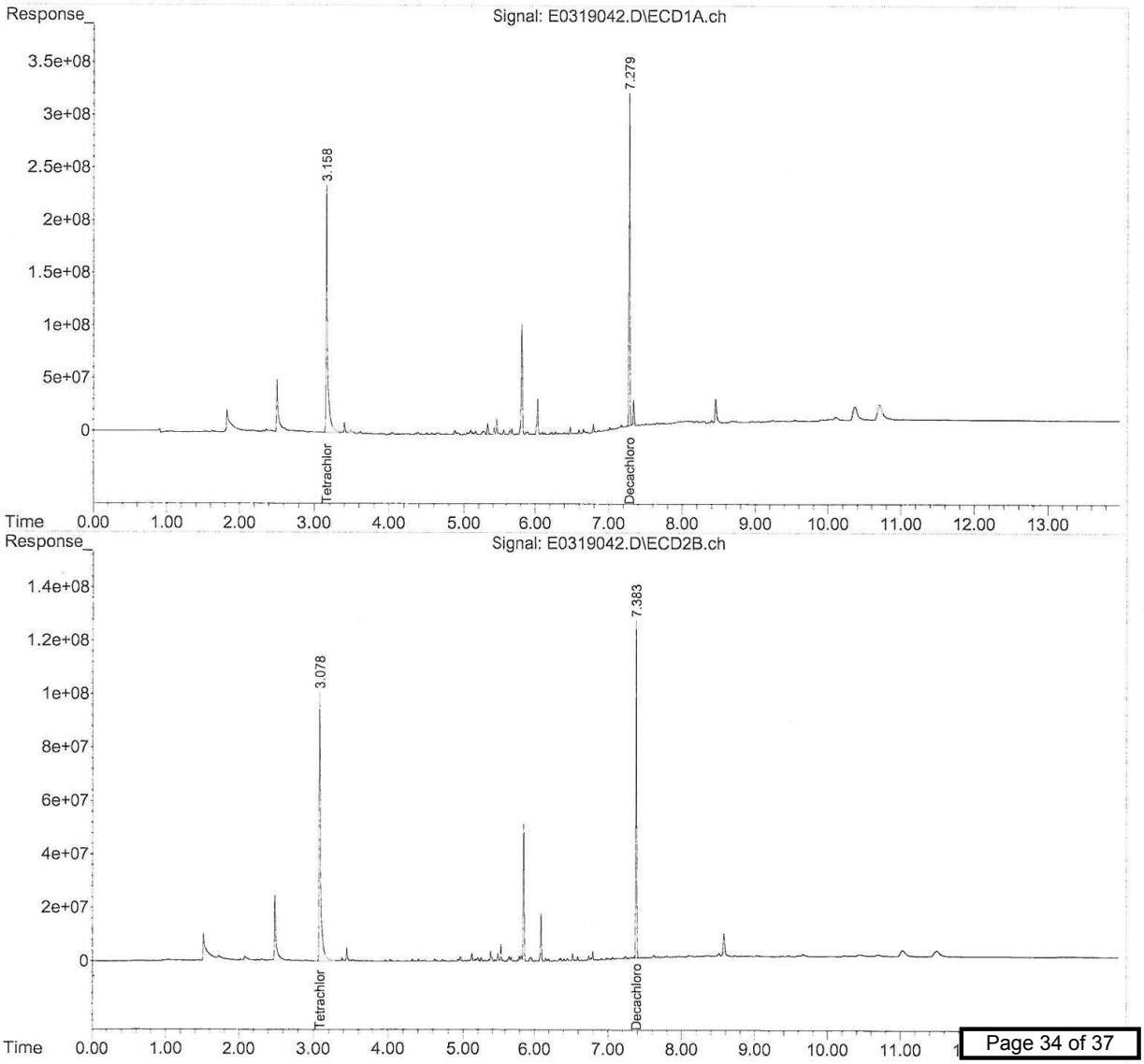


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 11:16 pm
Operator : JMB
Sample : 18C0698-06@4X TBA Inst : ECD 5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 14:05:33 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 8:29 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD 5
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 07:20:35 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.161	3.079	10913.2E6	3992.9E6	102.743	105.454
2)	SA Decachlor...	7.281	7.383	7976.4E6	2444.3E6	120.949	105.429
	Target Compounds						
3)	L1 1016{1}	3.920	3.978	134.8E6	49171375	95.123	99.042
4)	L1 1016{2}	4.132	4.147	433.5E6	160.0E6	97.877	104.815
5)	L1 1016{3}	4.239	4.252	295.9E6	94714896	93.023	96.789
6)	L1 1016{4}	4.291	4.334	192.2E6	57978647	98.093	93.882
7)	L1 1016{5}	4.569	4.408	216.4E6	52325666	92.124	97.336
	Sum 1016			1272.8E6	414.2E6	476.240	491.864
Average	1016					95.248	98.373
8)	L7 1260{1}	5.452	5.518	227.4E6	78353938	95.629	100.807
9)	L7 1260{2}	5.567	5.648	446.0E6	153.0E6	98.662	99.182
10)	L7 1260{3}	5.897	6.157	303.5E6	134.4E6	106.109	103.997
11)	L7 1260{4}	6.099	6.360	424.7E6	151.6E6	105.457	105.339
12)	L7 1260{5}	6.276	6.519	424.0E6	315.7E6	107.372	106.918
	Sum 1260			1825.6E6	833.0E6	513.229	516.243
Average	1260					102.646	103.249

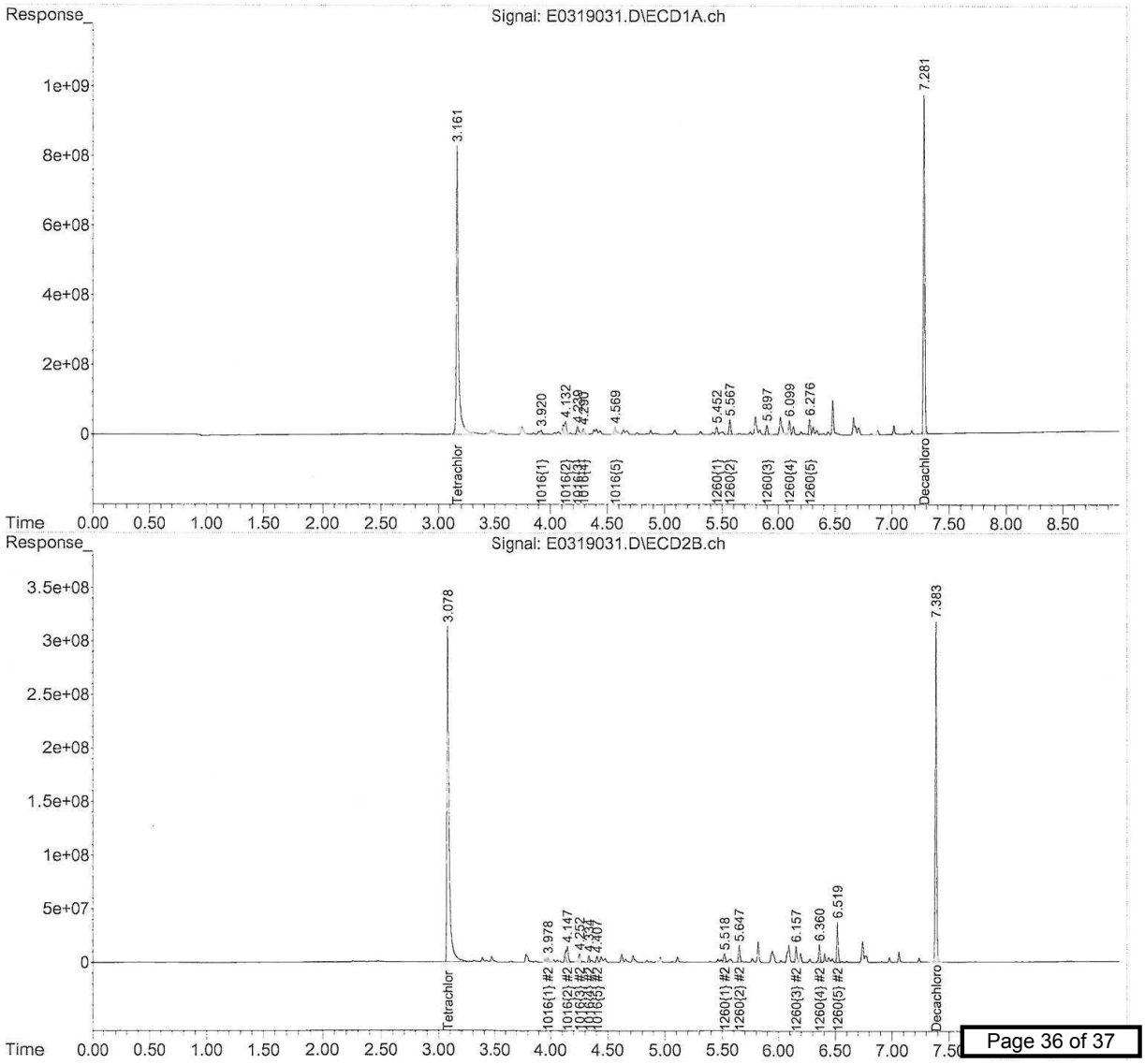
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031918\
Data File : E0319031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Mar 2018 8:29 pm
Operator : JMB
Sample : 1260/1016 100 Inst : ECD 5
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: 1260-F.E
Integration File signal 2: 1260-B.E
Quant Time: Mar 20 07:20:35 2018
Quant Method : C:\msdchem\1\METHODS\PCB methods\5-1260-031618.M
Quant Title : 1260/1016 03/03/18 01/19/18 ICAL 1800063
QLast Update : Tue Mar 06 10:24:23 2018
Response via : Initial Calibration
Integrator: ChemStation

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



REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 107 Selden St., Berlin, CT

Project Number: 18C0698

Laboratory Sample ID(s):

18C0698-01 thru 18C0698-07

Sample Date(s):

03/16/2018

List RCP Methods Used:

SW-846 8082A

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

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

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

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

Printed Name: Tod E. Kopyscinski **Date:** 03/21/18

Name of Laboratory: Con-Test Analytical Laboratory

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