

August 30, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1346

Enclosed are results of analyses for samples received by the laboratory on August 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1346

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-5-Bot	18H1346-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-60-SLP	18H1346-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-6-Bot	18H1346-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-61-SLP	18H1346-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-7-Bot	18H1346-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-62-SLP	18H1346-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H1346-06[OU2-SED-62-SLP]

SW-846 8260C

Qualifications:**RL-13**

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

18H1346-06[OU2-SED-62-SLP]

SW-846 8270D

Qualifications:**S-01**

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

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18H1346-06RE2[OU2-SED-62-SLP]

Nitrobenzene-d5

18H1346-06RE2[OU2-SED-62-SLP]

p-Terphenyl-d14

18H1346-06RE2[OU2-SED-62-SLP]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		112	70-130					8/29/18	9:05	
Toluene-d8		100	70-130					8/29/18	9:05	
4-Bromofluorobenzene		103	70-130					8/29/18	9:05	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Anthracene	0.087	0.21	0.060	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(a)anthracene	0.088	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(a)pyrene	0.088	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Chrysene	0.069	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Fluoranthene	0.20	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Phenanthrene	0.29	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Pyrene	0.31	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		65.2	30-130						8/29/18 22:48	
2-Fluorobiphenyl		61.8	30-130						8/29/18 22:48	
p-Terphenyl-d14		73.5	30-130						8/29/18 22:48	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.7		30-150						8/29/18 10:11	
Decachlorobiphenyl [2]	61.6		30-150						8/29/18 10:11	
Tetrachloro-m-xylene [1]	41.2		30-150						8/29/18 10:11	
Tetrachloro-m-xylene [2]	38.6		30-150						8/29/18 10:11	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Toluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					8/29/18	9:32	
Toluene-d8		99.8	70-130					8/29/18	9:32	
4-Bromofluorobenzene		101	70-130					8/29/18	9:32	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Fluoranthene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Fluorene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Phenanthrene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.0	30-130						8/29/18 23:17	
2-Fluorobiphenyl		60.1	30-130						8/29/18 23:17	
p-Terphenyl-d14		76.6	30-130						8/29/18 23:17	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.1		30-150				8/29/18 10:38			
Decachlorobiphenyl [2]	61.2		30-150				8/29/18 10:38			
Tetrachloro-m-xylene [1]	47.9		30-150				8/29/18 10:38			
Tetrachloro-m-xylene [2]	44.4		30-150				8/29/18 10:38			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Conventional 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	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/29/18	10:00	
Toluene-d8		102	70-130					8/29/18	10:00	
4-Bromofluorobenzene		101	70-130					8/29/18	10:00	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		64.1	30-130						8/29/18 23:45	
2-Fluorobiphenyl		64.1	30-130						8/29/18 23:45	
p-Terphenyl-d14		76.6	30-130						8/29/18 23:45	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Endosulfan I [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.5		30-150						8/29/18 11:06	
Decachlorobiphenyl [2]	61.1		30-150						8/29/18 11:06	
Tetrachloro-m-xylene [1]	40.9		30-150						8/29/18 11:06	
Tetrachloro-m-xylene [2]	37.7		30-150						8/29/18 11:06	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					8/29/18	10:28	
Toluene-d8		101	70-130					8/29/18	10:28	
4-Bromofluorobenzene		102	70-130					8/29/18	10:28	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.5	30-130						8/30/18 0:12	
2-Fluorobiphenyl		55.6	30-130						8/30/18 0:12	
p-Terphenyl-d14		71.2	30-130						8/30/18 0:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	67.6	30-150	
Decachlorobiphenyl [2]	61.0	30-150	
Tetrachloro-m-xylene [1]	42.3	30-150	
Tetrachloro-m-xylene [2]	39.5	30-150	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Ethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Isopropylbenzene (Cumene)	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Toluene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
1,2,4-Trimethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
m+p Xylene	ND	0.094		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
o-Xylene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.0	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
2-Methylnaphthalene	0.11	0.21	0.073	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Phenanthrene	0.13	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		71.5	30-130						8/30/18 0:40	
2-Fluorobiphenyl		70.9	30-130						8/30/18 0:40	
p-Terphenyl-d14		90.1	30-130						8/30/18 0:40	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	63.6	30-150	
Decachlorobiphenyl [2]	57.5	30-150	
Tetrachloro-m-xylene [1]	48.0	30-150	
Tetrachloro-m-xylene [2]	43.5	30-150	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Ethylbenzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Isopropylbenzene (Cumene)	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Toluene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
1,2,4-Trimethylbenzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
m+p Xylene	ND	3.8		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
o-Xylene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	97.3	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	60	8.2	2.5	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Acenaphthylene	9.0	0.82	0.28	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Anthracene	57	8.2	2.4	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(a)anthracene	48	8.2	2.2	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(a)pyrene	52	8.2	2.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(b)fluoranthene	35	8.2	2.3	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(g,h,i)perylene	24	8.2	3.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(k)fluoranthene	12	0.82	0.26	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Chrysene	37	8.2	2.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Dibenz(a,h)anthracene	6.3	0.82	0.50	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Fluoranthene	81	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Fluorene	41	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Indeno(1,2,3-cd)pyrene	22	8.2	5.9	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
2-Methylnaphthalene	110	8.2	2.9	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Naphthalene	110	8.2	4.2	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Phenanthrene	200	16	8.5	mg/Kg dry	20		SW-846 8270D	8/28/18	8/30/18 9:27	BGL
Pyrene	160	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed	Analyst
Nitrobenzene-d5	68.0	30-130		8/30/18 1:36	
Nitrobenzene-d5	55.4	30-130		8/30/18 2:31	
Nitrobenzene-d5	*	30-130	S-01	8/30/18 9:27	
2-Fluorobiphenyl	56.2	30-130		8/30/18 1:36	
2-Fluorobiphenyl	56.3	30-130		8/30/18 2:31	
2-Fluorobiphenyl	*	30-130	S-01	8/30/18 9:27	
p-Terphenyl-d14	73.5	30-130		8/30/18 1:36	
p-Terphenyl-d14	72.4	30-130		8/30/18 2:31	
p-Terphenyl-d14	*	30-130	S-01	8/30/18 9:27	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.19	0.014	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
4,4'-DDT [1]	ND	0.19	0.019	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
Endosulfan I [1]	ND	0.24	0.019	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
Endosulfan II [1]	ND	0.39	0.014	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	60.8	30-150	
Decachlorobiphenyl [2]	92.9	30-150	
Tetrachloro-m-xylene [1]	31.7	30-150	
Tetrachloro-m-xylene [2]	35.9	30-150	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	39.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1346-01 [OU2-SED-5-Bot]	B211315	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211315	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211315	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211315	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211315	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211315	08/28/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211301	10.1	10.0	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211301	10.0	10.0	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211301	10.0	10.0	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211301	10.0	10.0	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211301	10.2	10.0	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211301	10.6	10.0	08/28/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H1346-05 [OU2-SED-7-Bot]	B211330	9.02	6.79	1	50	08/29/18
18H1346-06 [OU2-SED-62-SLP]	B211330	5.67	8.45	0.1	50	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211345	8.02	10.0	08/29/18
18H1346-02 [OU2-SED-60-SLP]	B211345	6.97	10.0	08/29/18
18H1346-03 [OU2-SED-6-Bot]	B211345	8.31	10.0	08/29/18
18H1346-04 [OU2-SED-61-SLP]	B211345	7.73	10.0	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211245	30.1	1.00	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211245	30.1	1.00	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211245	30.3	1.00	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211245	30.1	1.00	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211245	30.2	1.00	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18
18H1346-06RE1 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18
18H1346-06RE2 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211330 - SW-846 5030B

Blank (B211330-BLK1)

Prepared & Analyzed: 08/29/18

Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg wet							
Vinyl Chloride	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0263		mg/Kg wet	0.0250		105	70-130			
Surrogate: Toluene-d8	0.0248		mg/Kg wet	0.0250		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		97.9	70-130			

LCS (B211330-BS1)

Prepared & Analyzed: 08/29/18

Benzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130			
Isopropylbenzene (Cumene)	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130			
Toluene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Vinyl Chloride	0.0134	0.0023	mg/Kg wet	0.0113		118	40-130			†
m+p Xylene	0.0248	0.0023	mg/Kg wet	0.0227		109	70-130			
o-Xylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0261		mg/Kg wet	0.0283		92.1	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0283		mg/Kg wet	0.0283		99.8	70-130			

LCS Dup (B211330-BSD1)

Prepared & Analyzed: 08/29/18

Benzene	0.0138	0.0011	mg/Kg wet	0.0113		121	70-130	9.76	25	
Ethylbenzene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	1.51	25	
Isopropylbenzene (Cumene)	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	0.343	25	
Toluene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130	2.01	25	
1,2,4-Trichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	2.07	25	
Vinyl Chloride	0.0130	0.0023	mg/Kg wet	0.0113		114	40-130	3.44	25	†
m+p Xylene	0.0252	0.0023	mg/Kg wet	0.0227		111	70-130	1.68	25	
o-Xylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	1.82	25	
Surrogate: 1,2-Dichloroethane-d4	0.0321		mg/Kg wet	0.0283		113	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

Batch B211345 - SW-846 5035

Blank (B211345-BLK1)

Prepared & Analyzed: 08/29/18

Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211345 - SW-846 5035										
LCS (B211345-BS1)										
Prepared & Analyzed: 08/29/18										
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Toluene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0526		mg/Kg wet	0.0500		105	70-130			
LCS Dup (B211345-BSD1)										
Prepared & Analyzed: 08/29/18										
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	1.67	25	
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	17.2	25	
Isopropylbenzene (Cumene)	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	16.8	25	
Toluene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.898	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	3.89	25	
m+p Xylene	0.0359	0.0040	mg/Kg wet	0.0400		89.6	70-130	12.2	25	
o-Xylene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130	21.8	25	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0543		mg/Kg wet	0.0500		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0461		mg/Kg wet	0.0500		92.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211245 - SW-846 3546										
Blank (B211245-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg wet	3.33		79.9	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.8	30-130			
LCS (B211245-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(a)pyrene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140			
2-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.3	40-140			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.9	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 B211245 - SW-846 3546										
LCS Dup (B211245-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	0.842	30	
Acenaphthylene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	1.38	30	
Anthracene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140	3.69	30	
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	0.0250	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140	1.97	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	1.24	30	
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	0.753	30	
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	1.29	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	3.13	30	
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	2.59	30	
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	4.33	30	
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	0.586	30	
Indeno(1,2,3-cd)pyrene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140	2.81	30	
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140	4.03	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	3.25	30	
Phenanthrene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	3.33	30	
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	2.05	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.76		mg/Kg wet	3.33		82.7	30-130			
Surrogate: p-Terphenyl-d14	3.27		mg/Kg wet	3.33		98.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211301 - SW-846 3546										
Blank (B211301-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0842		mg/Kg wet	0.200		42.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0792		mg/Kg wet	0.200		39.6	30-150			
LCS (B211301-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	0.094	0.0040	mg/Kg wet	0.100		93.5	40-140			
4,4'-DDE [2C]	0.080	0.0040	mg/Kg wet	0.100		80.0	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		88.3	40-140			
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140			
Endosulfan I	0.079	0.0050	mg/Kg wet	0.100		78.8	40-140			
Endosulfan I [2C]	0.073	0.0050	mg/Kg wet	0.100		72.8	40-140			
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.2	40-140			
Endosulfan II [2C]	0.077	0.0080	mg/Kg wet	0.100		76.8	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg wet	0.200		54.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg wet	0.200		50.3	30-150			
LCS Dup (B211301-BSD1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.0	40-140	8.32	30	
4,4'-DDE [2C]	0.074	0.0040	mg/Kg wet	0.100		73.8	40-140	8.15	30	
4,4'-DDT	0.082	0.0040	mg/Kg wet	0.100		81.6	40-140	7.93	30	
4,4'-DDT [2C]	0.072	0.0040	mg/Kg wet	0.100		72.4	40-140	7.65	30	
Endosulfan I	0.071	0.0050	mg/Kg wet	0.100		71.3	40-140	9.96	30	
Endosulfan I [2C]	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	9.32	30	
Endosulfan II	0.075	0.0080	mg/Kg wet	0.100		75.5	40-140	8.57	30	
Endosulfan II [2C]	0.071	0.0080	mg/Kg wet	0.100		71.1	40-140	7.74	30	
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.0879		mg/Kg wet	0.200		44.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0826		mg/Kg wet	0.200		41.3	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211315 - % Solids

Duplicate (B211315-DUP3)

Source: 18H1346-01

Prepared: 08/28/18 Analyzed: 08/29/18

% Solids	80.6		% Wt		80.8			0.280	20	
----------	------	--	------	--	------	--	--	-------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.61
Endrin [1] 1.47

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 2.41

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.68
Endrin [1] 1.26

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.27
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.67
Endrin [1] 1.16

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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.24
Endrin [2] 1.91

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM4 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.49
Endrin [1] 2.76

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.67
Endrin [2] 3.71

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM5 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 1.72

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.14
Endrin [2] 2.68

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.11
Endrin [1] 3.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.21
Endrin [2] 3.80

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.83
Endrin [1] 3.38

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.95
Endrin [2] 3.44

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 3.36

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

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	6.14
Endrin [2]	3.83

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM4 **Analyzed:** 08/29/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	5.06
Endrin [1]	3.43

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	5.21
Endrin [2]	3.41

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211301-BS1 Date(s) Analyzed: 08/29/2018 08/29/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.986	6.957	7.017	0.094	
	2	6.921	6.891	6.951	0.080	16.1
4,4'-DDT	1	7.652	7.624	7.684	0.088	
	2	7.598	7.568	7.628	0.078	12.0
Endosulfan I	1	7.035	7.007	7.067	0.079	
	2	6.833	6.803	6.863	0.073	7.9
Endosulfan II	1	7.561	7.532	7.592	0.082	
	2	7.423	7.393	7.453	0.077	6.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8081B

Lab Sample ID: B211301-BSD1 Date(s) Analyzed: 08/29/2018 08/29/2018
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.986	6.957	7.017	0.086	
	2	6.921	6.891	6.951	0.074	15.0
4,4'-DDT	1	7.652	7.624	7.684	0.082	
	2	7.598	7.568	7.628	0.072	13.0
Endosulfan I	1	7.035	7.007	7.067	0.071	
	2	6.833	6.803	6.863	0.066	7.3
Endosulfan II	1	7.561	7.532	7.592	0.075	
	2	7.423	7.393	7.453	0.071	6.8

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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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
RL-13	Elevated reporting limit due to high concentration of non-target compounds.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

39 Spruce Street
East Longmeadow, MA 01028

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation

Address: 74 Hudson River Road Waterford, New York 12188

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3

Project Number: Matthew Warren

Project Manager: Matthew Warren

Con-Test Quote Name/Number: miw@land-remediation.com

Invoice Recipient: miw@land-remediation.com

Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day

Due Date: _____

Rush-Approval Required: 1-Day 3-Day

2-Day 4-Day

Format: PDF EXCEL

Other: CAT B - Equis

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-5-Bot	8/27/2018 15:14	8/27/2018 15:15		X	S	L
2	OU2-SED-60-SLP	8/27/2018 15:17	8/27/2018 15:21		X	S	L
3	OU2-SED-6-Bot	8/27/2018 15:24	8/27/2018 15:30		X	S	L
4	OU2-SED-61-SLP	8/27/2018 15:34	8/27/2018 15:39		X	S	L
5	OU2-SED-7-Bot	8/27/2018 16:15	8/27/2018 16:20		X	S	L
6	OU2-SED-62-SLP	8/27/2018 16:20	8/27/2018 16:25		X	S	L

Comments: LRI Personnell - Attached

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

Only report analytes shown on Table 4-2. (Attached for reference).

Relinquished by: (signature) *[Signature]* Date/Time: 8/28/18 9:00

Received by: (signature) *[Signature]* Date/Time: 8-28-18 9:00 A

Relinquished by: (signature) *[Signature]* Date/Time: 8-28-18 1:30 P.R.

Relinquished by: (signature) *[Signature]* Date/Time: 8-28-18 1:30 P.R.

Relinquished by: (signature) *[Signature]* Date/Time: 8-28-18 14:25

Relinquished by: (signature) *[Signature]* Date/Time: 8-28-18 14:25



Program Regulatory Information

AWQ STDS

NYC Sewer Discharge Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

NY TOGS

NY CP-51

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Other: _____

Project Entity

Government

Federal

City

Municipality

21 J

Brownfield

MWRA

School

MBTA

WRTA

Other

Chromatogram

AHFA-LAP, LLC

PCB ONLY

Soxhlet

Non Soxhlet

of Containers: 1

Preservation Code: 1

Container Code: A

Dissoved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

ANALYSIS REQUESTED

Conc Code	Matrix Code	Grab	Composite	Ending Date/Time	Beginning Date/Time	Client Sample ID / Description	Con-Test Work Order#
L	S	X		8/27/2018 15:15	8/27/2018 15:14	OU2-SED-5-Bot	1
L	S	X		8/27/2018 15:21	8/27/2018 15:17	OU2-SED-60-SLP	2
L	S	X		8/27/2018 15:30	8/27/2018 15:24	OU2-SED-6-Bot	3
L	S	X		8/27/2018 15:39	8/27/2018 15:34	OU2-SED-61-SLP	4
L	S	X		8/27/2018 16:20	8/27/2018 16:15	OU2-SED-7-Bot	5
L	S	X		8/27/2018 16:25	8/27/2018 16:20	OU2-SED-62-SLP	6

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)

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Lynn Remington

Received By ESD Date 8-28-18 Time 14:25

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 # 533 Actual Temp - 3.3, 3.2
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Acid _____ Base _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Who was notified? _____

Who was notified? Mark Ray

Who was notified? _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>6</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>12</u>	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:

September 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0177

Enclosed are results of analyses for samples received by the laboratory on September 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0177

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-13-Bottom	18I0177-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-71-Sidewall	18I0177-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-72-Sidewall	18I0177-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Ethylbenzene	ND	0.0012	0.00049	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Isopropylbenzene (Cumene)	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
1,2,4-Trimethylbenzene	ND	0.0012	0.00049	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
m+p Xylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
o-Xylene	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Xylenes (total)	ND	0.0037		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.8	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	104	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		66.4	30-130						9/7/18 11:15	
2-Fluorobiphenyl		70.9	30-130						9/7/18 11:15	
p-Terphenyl-d14		86.1	30-130						9/7/18 11:15	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Endosulfan II [1]	ND	0.0092	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.7		30-150						9/6/18 23:03	
Decachlorobiphenyl [2]	88.3		30-150						9/6/18 23:03	
Tetrachloro-m-xylene [1]	69.5		30-150						9/6/18 23:03	
Tetrachloro-m-xylene [2]	73.5		30-150						9/6/18 23:03	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18I0177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 18I0177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Conventional 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	9/6/18	9/7/18 10:41	JFC

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
Ethylbenzene	0.00075	0.0014	0.00058	mg/Kg dry	1	J	SW-846 8260C	9/6/18	9/6/18 13:53	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
1,2,4-Trimethylbenzene	0.00083	0.0014	0.00058	mg/Kg dry	1	J	SW-846 8260C	9/6/18	9/6/18 13:53	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.4	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	105	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.1	30-130						9/7/18 11:37	
2-Fluorobiphenyl		68.4	30-130						9/7/18 11:37	
p-Terphenyl-d14		79.5	30-130						9/7/18 11:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Endosulfan I [1]	ND	0.0064	0.00051	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.8		30-150						9/6/18 23:30	
Decachlorobiphenyl [2]	86.4		30-150						9/6/18 23:30	
Tetrachloro-m-xylene [1]	64.2		30-150						9/6/18 23:30	
Tetrachloro-m-xylene [2]	66.6		30-150						9/6/18 23:30	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.7		% Wt	1		SM 2540G	9/6/18	9/7/18 10:41	JFC

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.9	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	106	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		60.1	30-130						9/7/18 11:59	
2-Fluorobiphenyl		65.6	30-130						9/7/18 11:59	
p-Terphenyl-d14		78.8	30-130						9/7/18 11:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	87.4		30-150						9/6/18 23:57	
Decachlorobiphenyl [2]	83.1		30-150						9/6/18 23:57	
Tetrachloro-m-xylene [1]	72.5		30-150						9/6/18 23:57	
Tetrachloro-m-xylene [2]	77.8		30-150						9/6/18 23:57	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Conventional 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	9/6/18	9/7/18 10:41	JFC

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0177-01 [OU2-SED-13-Bottom]	B211894	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211894	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211894	09/06/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211828	10.1	10.0	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211828	10.0	10.0	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211828	10.0	10.0	09/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211898	9.43	10.0	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211898	8.83	10.0	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211898	7.84	10.0	09/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211830	30.1	1.00	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211830	30.0	1.00	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211830	30.0	1.00	09/06/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211898 - SW-846 5035										
Blank (B211898-BLK1)										
Prepared & Analyzed: 09/06/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0531		mg/Kg wet	0.0500		106	70-130			
LCS (B211898-BS1)										
Prepared & Analyzed: 09/06/18										
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Isopropylbenzene (Cumene)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B211898-BSD1)										
Prepared & Analyzed: 09/06/18										
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	0.514	25	
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.00	25	
Isopropylbenzene (Cumene)	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.993	25	
Toluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	9.66	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	1.48	25	
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.2	70-130	0.403	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	0.523	25	
Surrogate: 1,2-Dichloroethane-d4	0.0477		mg/Kg wet	0.0500		95.4	70-130			
Surrogate: Toluene-d8	0.0470		mg/Kg wet	0.0500		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211830 - SW-846 3546										
Blank (B211830-BLK1)										
Prepared: 09/06/18 Analyzed: 09/07/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.32		70.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.32		76.4	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.32		85.7	30-130			
LCS (B211830-BS1)										
Prepared: 09/06/18 Analyzed: 09/07/18										
Acenaphthene	1.13	0.17	mg/Kg wet	1.65		68.3	40-140			
Acenaphthylene	1.13	0.17	mg/Kg wet	1.65		68.2	40-140			
Anthracene	1.17	0.17	mg/Kg wet	1.65		70.6	40-140			
Benzo(a)anthracene	1.18	0.17	mg/Kg wet	1.65		71.2	40-140			
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.65		73.7	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.65		68.2	40-140			
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.65		77.6	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.65		68.7	40-140			
Chrysene	1.13	0.17	mg/Kg wet	1.65		68.4	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.65		80.5	40-140			
Fluoranthene	1.19	0.17	mg/Kg wet	1.65		71.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.65		70.0	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.65		78.1	40-140			
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.65		73.0	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.65		67.1	40-140			
Phenanthrene	1.15	0.17	mg/Kg wet	1.65		69.6	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.65		69.0	40-140			
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.30		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.30		77.8	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.30		85.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211830 - SW-846 3546										
LCS Dup (B211830-BSD1)										
					Prepared: 09/06/18 Analyzed: 09/07/18					
Acenaphthene	1.15	0.17	mg/Kg wet	1.66		69.2	40-140	1.67	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.66		68.9	40-140	1.35	30	
Anthracene	1.19	0.17	mg/Kg wet	1.66		72.1	40-140	2.38	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.66		72.4	40-140	1.97	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.66		75.4	40-140	2.67	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.66		70.0	40-140	2.88	30	
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.66		78.5	40-140	1.51	30	
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.66		70.7	40-140	3.20	30	
Chrysene	1.16	0.17	mg/Kg wet	1.66		69.8	40-140	2.39	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.66		81.0	40-140	0.851	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.66		75.2	40-140	4.73	30	
Fluorene	1.18	0.17	mg/Kg wet	1.66		71.3	40-140	2.06	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.66		78.6	40-140	0.994	30	
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.66		74.1	40-140	1.83	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.66		67.7	40-140	1.25	30	
Phenanthrene	1.18	0.17	mg/Kg wet	1.66		71.0	40-140	2.35	30	
Pyrene	1.15	0.17	mg/Kg wet	1.66		69.5	40-140	1.05	30	
Surrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.31		73.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.31		77.4	30-130			
Surrogate: p-Terphenyl-d14	2.83		mg/Kg wet	3.31		85.5	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211828 - SW-846 3546										
Blank (B211828-BLK1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	ND	0.0038	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0038	mg/Kg wet							
4,4'-DDT	ND	0.0038	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0038	mg/Kg wet							
Endosulfan I	ND	0.0048	mg/Kg wet							
Endosulfan I [2C]	ND	0.0048	mg/Kg wet							
Endosulfan II	ND	0.0077	mg/Kg wet							
Endosulfan II [2C]	ND	0.0077	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.123		mg/Kg wet	0.192		63.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.116		mg/Kg wet	0.192		60.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.115		mg/Kg wet	0.192		60.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.120		mg/Kg wet	0.192		62.4	30-150			
LCS (B211828-BS1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.0990		91.3	40-140			
Endosulfan I	0.089	0.0050	mg/Kg wet	0.0990		90.1	40-140			
Endosulfan I [2C]	0.090	0.0050	mg/Kg wet	0.0990		90.8	40-140			
Endosulfan II	0.086	0.0079	mg/Kg wet	0.0990		87.3	40-140			
Endosulfan II [2C]	0.086	0.0079	mg/Kg wet	0.0990		87.3	40-140			
Surrogate: Decachlorobiphenyl	0.193		mg/Kg wet	0.198		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.198		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.198		91.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.198		97.9	30-150			
LCS Dup (B211828-BSD1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.0990		106	40-140	3.59	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.0990		106	40-140	3.74	30	
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.0990		107	40-140	4.40	30	
4,4'-DDT [2C]	0.096	0.0040	mg/Kg wet	0.0990		96.5	40-140	5.54	30	
Endosulfan I	0.094	0.0050	mg/Kg wet	0.0990		94.5	40-140	4.83	30	
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.0990		95.0	40-140	4.52	30	
Endosulfan II	0.092	0.0079	mg/Kg wet	0.0990		92.8	40-140	6.16	30	
Endosulfan II [2C]	0.092	0.0079	mg/Kg wet	0.0990		92.9	40-140	6.23	30	
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.198		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.198		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.198		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.198		101	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211894 - % Solids

Duplicate (B211894-DUP1)

Source: 1810177-02

Prepared: 09/06/18 Analyzed: 09/07/18

% Solids	78.7		% Wt		78.7			0.0471	20	
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BREAKDOWN REPORT

Lab Sample ID: S027065-PEM1 **Analyzed:** 09/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.52
Endrin [1] 1.59

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.52
Endrin [2] 1.63

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM2 **Analyzed:** 09/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.62
Endrin [1] 1.94

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.57
Endrin [2] 2.00

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM3 **Analyzed:** 09/07/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.79
Endrin [1] 1.69

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BREAKDOWN REPORT

Lab Sample ID: S027065-PEM3 **Analyzed:** 09/07/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.74
Endrin [2]	1.73

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM4 **Analyzed:** 09/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.11
Endrin [1]	1.58

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.05
Endrin [2]	1.62

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211828-BS1 Date(s) Analyzed: 09/06/2018 09/06/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.770	6.741	6.801	0.10	
	2	6.860	6.830	6.890	0.10	0.0
4,4'-DDT	1	7.419	7.390	7.450	0.10	
	2	7.531	7.502	7.562	0.090	10.5
Endosulfan I	1	6.810	6.781	6.841	0.089	
	2	6.771	6.741	6.801	0.090	1.1
Endosulfan II	1	7.318	7.290	7.350	0.086	
	2	7.356	7.327	7.387	0.086	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B211828-BSD1 Date(s) Analyzed: 09/06/2018 09/06/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.771	6.741	6.801	0.10	
	2	6.860	6.830	6.890	0.11	0.0
4,4'-DDT	1	7.419	7.390	7.450	0.11	
	2	7.532	7.502	7.562	0.096	13.6
Endosulfan I	1	6.811	6.781	6.841	0.094	
	2	6.771	6.741	6.801	0.094	0.0
Endosulfan II	1	7.319	7.290	7.350	0.092	
	2	7.357	7.327	7.387	0.092	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810177



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation

Address: 74 Hudson River Road Waterford, New York 12188

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: Saranac Lake OU_3

Project Number: Matthew Warren

Con-Test Quote Name/Number: miw@land-remediation.com

Invoice Recipient: Ethan Bradt

Sampled By:

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: CAT B - Equis

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com
Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU2-SED-13-Bottom	9/5/2018 11:41	9/5/2018 11:43	X	X	S	L
02	OU2-SED-71-Sidewall	9/5/2018 11:44	9/5/2018 11:49	X	X	S	L
03	OU2-SED-72-Sidewall	9/5/2018 11:50	9/5/2018 11:55	X	X	S	L

3	1	1																				
V	G	G																				

ANALYSIS REQUESTED

VOC 8270

SVOC 8260

Pesticides

Comments: LRI Personnel - Attached

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

Only report analytes shown on Table 4-2 (Attached for reference).

Relinquished by: (signature) *[Signature]* Date/Time: 9/5/15:00

Received by: (signature) *[Signature]* Date/Time: 9/18/18 9:30

Relinquished by: (signature) *[Signature]* Date/Time:

ved by: (signature) Date/Time:

quished by: (signature) Date/Time:

ved by: (signature) Date/Time:

Program & Regulatory Information

AWQ STDS NY TOGS Enhanced Data Package

NYC Sewer Discharge NY CP-51 NYSDEC EQUIS EDD

Part 360 GW (Landfill) EQUIS (Standard) EDD

NY Restricted Use NY Regulatory EDD

NY Unrestricted Use NY Regs Hits-Only EDD

NY Part 375

Project Entity

Government Municipality MWRA WRTA

Federal 21 J School MBTA

City Brownfield Other

Other: NYSDEC and ALPHA-LAP, LLC Accredited

PCB ONLY

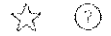
Soxhlet Non Soxhlet



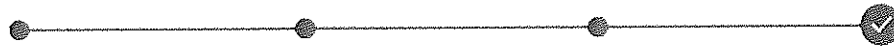
Sign In

TRACK ANOTHER SHIPMENT

813219360992



Delivered
Thursday 9/06/2018 at 9:36 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SUM US
TO
EAST LONGMEADOW, MA US

Travel History

Shipment Facts

9/06/2018 - Thursday

9:36 am

Delivered
MA

Expand History

9/05/2018 - Wednesday

4:17 pm

Picked up
PLATTSBURGH, NY

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English

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PLF Date 9/16/18 Time 936

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 - 2.5
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Devin

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>3</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>6</u>	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:

September 14, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0499

Enclosed are results of analyses for samples received by the laboratory on September 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810499

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-81-Sidewall	1810499-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-79-Sidewall	1810499-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-20- Bottom	1810499-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-77-Sidewall	1810499-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-18-Bottom	1810499-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-17-Bottom	1810499-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-80-Sidewall	1810499-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-82-Sidewall	1810499-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

1810499-02[OU2-SED-79-Sidewall], 1810499-03[OU2-SED-20- Bottom]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		91.2	70-130						9/13/18 12:59	
Toluene-d8		98.2	70-130						9/13/18 12:59	
4-Bromofluorobenzene		96.2	70-130						9/13/18 12:59	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		49.7	30-130						9/14/18 13:01	
2-Fluorobiphenyl		53.0	30-130						9/14/18 13:01	
p-Terphenyl-d14		59.7	30-130						9/14/18 13:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.2		30-150						9/14/18 11:12	
Decachlorobiphenyl [2]	68.1		30-150						9/14/18 11:12	
Tetrachloro-m-xylene [1]	67.6		30-150						9/14/18 11:12	
Tetrachloro-m-xylene [2]	63.3		30-150						9/14/18 11:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 18I0499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Xylenes (total)	ND	0.0060		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	103	70-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.25	0.075	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Acenaphthylene	ND	0.25	0.084	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Anthracene	ND	0.25	0.072	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(a)anthracene	ND	0.25	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(a)pyrene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(b)fluoranthene	ND	0.25	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(k)fluoranthene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Chrysene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Fluoranthene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Fluorene	ND	0.25	0.081	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
2-Methylnaphthalene	ND	0.25	0.087	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Phenanthrene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Pyrene	0.088	0.25	0.083	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		39.9	30-130						9/14/18 13:30	
2-Fluorobiphenyl		41.6	30-130						9/14/18 13:30	
p-Terphenyl-d14		42.3	30-130						9/14/18 13:30	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.030	0.0022	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
4,4'-DDT [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Endosulfan I [1]	ND	0.037	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Endosulfan II [1]	ND	0.059	0.0022	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.0		30-150				9/14/18 11:37			
Decachlorobiphenyl [2]	74.2		30-150				9/14/18 11:37			
Tetrachloro-m-xylene [1]	76.4		30-150				9/14/18 11:37			
Tetrachloro-m-xylene [2]	72.4		30-150				9/14/18 11:37			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.5		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Ethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Toluene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					9/13/18	13:55	
Toluene-d8		101	70-130					9/13/18	13:55	
4-Bromofluorobenzene		101	70-130					9/13/18	13:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.26	0.077	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Acenaphthylene	ND	0.26	0.086	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Anthracene	ND	0.26	0.074	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(a)anthracene	ND	0.26	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(a)pyrene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(b)fluoranthene	ND	0.26	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(g,h,i)perylene	ND	0.26	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(k)fluoranthene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Chrysene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Dibenz(a,h)anthracene	ND	0.26	0.16	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Fluoranthene	ND	0.26	0.085	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Fluorene	ND	0.26	0.083	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Indeno(1,2,3-cd)pyrene	ND	0.26	0.18	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
2-Methylnaphthalene	ND	0.26	0.089	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Naphthalene	ND	0.26	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Phenanthrene	ND	0.26	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Pyrene	ND	0.26	0.085	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		44.6	30-130						9/14/18 14:00	
2-Fluorobiphenyl		47.3	30-130						9/14/18 14:00	
p-Terphenyl-d14		48.0	30-130						9/14/18 14:00	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 18I0499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.030	0.0023	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
4,4'-DDT [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Endosulfan I [1]	ND	0.038	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Endosulfan II [1]	ND	0.061	0.0023	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.7		30-150				9/14/18 11:59			
Decachlorobiphenyl [2]	63.0		30-150				9/14/18 11:59			
Tetrachloro-m-xylene [1]	67.1		30-150				9/14/18 11:59			
Tetrachloro-m-xylene [2]	65.1		30-150				9/14/18 11:59			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.8		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					9/13/18	14:22	
Toluene-d8		99.9	70-130					9/13/18	14:22	
4-Bromofluorobenzene		113	70-130					9/13/18	14:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 18I0499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.8	30-130						9/14/18 14:30	
2-Fluorobiphenyl		60.1	30-130						9/14/18 14:30	
p-Terphenyl-d14		69.0	30-130						9/14/18 14:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.4		30-150						9/14/18 12:21	
Decachlorobiphenyl [2]	68.8		30-150						9/14/18 12:21	
Tetrachloro-m-xylene [1]	67.8		30-150						9/14/18 12:21	
Tetrachloro-m-xylene [2]	65.7		30-150						9/14/18 12:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
Ethylbenzene	0.0022	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
1,2,4-Trimethylbenzene	0.0025	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MFF
o-Xylene	0.00090	0.0014	0.00048	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 15:45	MFF
Xylenes (total)	0.00090	0.0041		mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 15:45	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		90.5	70-130					9/13/18	15:45	
Toluene-d8		96.9	70-130					9/13/18	15:45	
4-Bromofluorobenzene		101	70-130					9/13/18	15:45	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Acenaphthylene	0.083	0.20	0.068	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Naphthalene	0.12	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Phenanthrene	0.13	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.4	30-130						9/14/18 15:01	
2-Fluorobiphenyl		58.2	30-130						9/14/18 15:01	
p-Terphenyl-d14		67.0	30-130						9/14/18 15:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.5		30-150						9/14/18 12:43	
Decachlorobiphenyl [2]	62.9		30-150						9/14/18 12:43	
Tetrachloro-m-xylene [1]	63.8		30-150						9/14/18 12:43	
Tetrachloro-m-xylene [2]	58.3		30-150						9/14/18 12:43	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Conventional 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	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Ethylbenzene	0.0033	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Isopropylbenzene (Cumene)	0.00075	0.0013	0.00047	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
Toluene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
1,2,4-Trimethylbenzene	0.0043	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
m+p Xylene	0.0018	0.0027	0.0011	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
o-Xylene	0.0014	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Xylenes (total)	0.0032	0.0040		mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		103		70-130					9/13/18 16:12	
Toluene-d8		101		70-130					9/13/18 16:12	
4-Bromofluorobenzene		104		70-130					9/13/18 16:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.17	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Fluorene	0.10	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
2-Methylnaphthalene	0.16	0.20	0.070	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Naphthalene	0.20	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Phenanthrene	0.29	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	48.6		30-130				9/14/18 12:34			
2-Fluorobiphenyl	53.2		30-130				9/14/18 12:34			
p-Terphenyl-d14	57.9		30-130				9/14/18 12:34			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 18I0499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	73.1		30-150						9/14/18 13:05	
Decachlorobiphenyl [2]	60.5		30-150						9/14/18 13:05	
Tetrachloro-m-xylene [1]	58.6		30-150						9/14/18 13:05	
Tetrachloro-m-xylene [2]	53.9		30-150						9/14/18 13:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
o-Xylene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		124	70-130					9/13/18	14:51	
Toluene-d8		100	70-130					9/13/18	14:51	
4-Bromofluorobenzene		104	70-130					9/13/18	14:51	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.6	30-130						9/14/18 13:01	
2-Fluorobiphenyl		56.9	30-130						9/14/18 13:01	
p-Terphenyl-d14		64.4	30-130						9/14/18 13:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 18I0499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Endosulfan I [1]	ND	0.0062	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.9		30-150						9/14/18 13:19	
Decachlorobiphenyl [2]	74.0		30-150						9/14/18 13:19	
Tetrachloro-m-xylene [1]	71.0		30-150						9/14/18 13:19	
Tetrachloro-m-xylene [2]	65.8		30-150						9/14/18 13:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFf
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						9/13/18 15:18	
Toluene-d8		110	70-130						9/13/18 15:18	
4-Bromofluorobenzene		111	70-130						9/13/18 15:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.6	30-130						9/14/18 13:28	
2-Fluorobiphenyl		61.4	30-130						9/14/18 13:28	
p-Terphenyl-d14		63.8	30-130						9/14/18 13:28	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.7		30-150						9/14/18 13:35	
Decachlorobiphenyl [2]	74.4		30-150						9/14/18 13:35	
Tetrachloro-m-xylene [1]	76.0		30-150						9/14/18 13:35	
Tetrachloro-m-xylene [2]	74.6		30-150						9/14/18 13:35	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212445	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212445	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212445	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212445	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212445	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212445	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212445	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212445	09/13/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212399	10.0	10.0	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212399	10.0	10.0	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212399	10.1	10.0	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212399	10.0	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212424	8.48	10.0	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212424	7.43	10.0	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212424	7.82	10.0	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212424	7.52	10.0	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212424	8.80	10.0	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212424	8.88	10.0	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212424	9.13	10.0	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212424	8.77	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212411	30.2	1.00	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212411	30.1	1.00	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212411	30.1	1.00	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212411	30.0	1.00	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212411	30.1	1.00	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212411	30.1	1.00	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212411	30.0	1.00	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212411	30.0	1.00	09/13/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212424 - SW-846 5035										
Blank (B212424-BLK1)										
Prepared & Analyzed: 09/13/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0454		mg/Kg wet	0.0500		90.9	70-130			
Surrogate: Toluene-d8	0.0473		mg/Kg wet	0.0500		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			
LCS (B212424-BS1)										
Prepared & Analyzed: 09/13/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Isopropylbenzene (Cumene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,2,4-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B212424-BSD1)										
Prepared & Analyzed: 09/13/18										
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	5.19	25	
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	3.16	25	
Isopropylbenzene (Cumene)	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.55	25	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.39	25	
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.04	25	
m+p Xylene	0.0428	0.0040	mg/Kg wet	0.0400		107	70-130	2.41	25	
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	3.51	25	
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212411 - SW-846 3546

Blank (B212411-BLK1)

Prepared: 09/13/18 Analyzed: 09/14/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.33		91.0	30-130			

LCS (B212411-BS1)

Prepared: 09/13/18 Analyzed: 09/14/18

Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(g,h,i)perylene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Fluorene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.5	30-130			
Surrogate: p-Terphenyl-d14	3.12		mg/Kg wet	3.33		93.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212411 - SW-846 3546										
LCS Dup (B212411-BSD1)										
					Prepared: 09/13/18 Analyzed: 09/14/18					
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	3.22	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	2.40	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	8.21	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.11	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140	7.19	30	
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	5.50	30	
Benzo(g,h,i)perylene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	9.42	30	
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	7.17	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	7.83	30	
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	8.64	30	
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	8.32	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	3.80	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	8.88	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	1.19	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	0.840	30	
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	7.42	30	
Pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	5.41	30	
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.1	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212399 - SW-846 3546										
Blank (B212399-BLK1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.146		mg/Kg wet	0.200		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		68.8	30-150			
LCS (B212399-BS1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140			
4,4'-DDE [2C]	0.084	0.0040	mg/Kg wet	0.100		84.1	40-140			
4,4'-DDT	0.081	0.0040	mg/Kg wet	0.100		80.6	40-140			
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		69.1	40-140			
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140			
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140			
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.5	40-140			
Endosulfan II [2C]	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		72.1	30-150			
LCS Dup (B212399-BSD1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140	1.85	30	
4,4'-DDE [2C]	0.083	0.0040	mg/Kg wet	0.100		83.1	40-140	1.20	30	
4,4'-DDT	0.080	0.0040	mg/Kg wet	0.100		80.4	40-140	0.232	30	
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		68.5	40-140	0.794	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	1.37	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.5	40-140	0.752	30	
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140	1.70	30	
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.7	40-140	1.72	30	
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.145		mg/Kg wet	0.200		72.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		69.9	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S027292-PEM1 Analyzed: 09/14/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.83
Endrin [1]	3.85

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.71
Endrin [2]	3.97

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212399-BS1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.756	6.725	6.785	0.086	
	2	6.850	6.820	6.880	0.084	2.4
4,4'-DDT	1	7.403	7.372	7.432	0.081	
	2	7.521	7.490	7.550	0.069	16.0
Endosulfan I	1	6.795	6.764	6.824	0.083	
	2	6.761	6.731	6.791	0.081	2.4
Endosulfan II	1	7.302	7.272	7.332	0.084	
	2	7.346	7.316	7.376	0.082	2.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B212399-BSD1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.756	6.725	6.785	0.085	
	2	6.849	6.820	6.880	0.083	2.4
4,4'-DDT	1	7.403	7.372	7.432	0.080	
	2	7.520	7.490	7.550	0.069	14.8
Endosulfan I	1	6.795	6.764	6.824	0.082	
	2	6.760	6.731	6.791	0.080	2.5
Endosulfan II	1	7.303	7.272	7.332	0.082	
	2	7.345	7.316	7.376	0.081	1.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: **LAND remediation**
Address: 74 Hudson River Road Waterford, NY

Phone: **NYSDC Saranac Lake Gas Co.**
Project Location: **OU_2_Sed**
Project Number: **Matthew Warren**

Con-Test Quote Name/Number: **mjiw@land-remediation.com**
Invoice Recipient: **mjiw@land-remediation.com**
Sampled By:

Requested Turnaround Time: 7-Day 10-Day

Due Date:

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

Data Delivery: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: **mjiw@land-remediation.com**

Fax To #:

ANALYSIS REQUESTED

8081*	8260 Standard	8270 PAH
-------	---------------	----------

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OUZ-SED-81-Sidewall	9/11/2018 14:42	9/11/2018 14:47	X	X	S	L
2	OUZ-SED-79-Sidewall	9/11/2018 14:29	9/11/2018 14:35	X	X	S	L
3	OUZ-SED-20-Bottom	9/11/2018 14:26	9/11/2018 14:40	X	X	S	L
4	OUZ-SED-77-Sidewall	9/11/2018 14:23	9/11/2018 14:28	X	X	S	L
5	OUZ-SED-18-Bottom	9/11/2018 14:16	9/11/2018 14:22	X	X	S	L
6	OUZ-SED-17-Bottom	9/11/2018 14:03	9/11/2018 14:09	X	X	S	L
7	OUZ-SED-80-Sidewall	9/11/2018 13:43	9/11/2018 13:47	X	X	S	L
8	OUZ-SED-82-Sidewall	9/11/2018 13:48	9/11/2018 13:55	X	X	S	L

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: *8081: 4-4DDE, 4-4DDT, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, isopropylbenzene + Total Xylene

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) *[Signature]* Date/Time: 9/12/18 15:00

Received by: (signature) *[Signature]* 34 Date/Time: 9/13/18 9:25

Relinquished by: (signature) *[Signature]* Date/Time:

Received by: (signature) *[Signature]* Date/Time:

Relinquished by: (signature) *[Signature]* Date/Time:

Received by: (signature) *[Signature]* Date/Time:

Program B Regulatory Information

AWQ STDS NY TOGS

NYC Sewer Discharge NY CP-51

Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD


NY Regs Hits-Only EDD

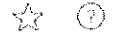
Other: WRTA MBTA School Brownfield Municipality 21 J City Government Federal MWRRA MBTA



Sign In

TRACK ANOTHER SHIPMENT

813219360970 



Delivered
Thursday 9/13/2018 at 9:25 am



DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US


Travel History

Shipment Facts

9/13/2018 - Thursday

9:25 am

Delivered
MA

Expand History 

9/12/2018 - Wednesday

4:16 pm

Picked up
PLATTSBURGH, NY

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAMD Remediation

Received By mp Date 9/13/18 Time 925

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 # 557 Actual Temp - 3.4
 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? _____
 Did COC include all pertinent Information? Client T Analysis T Sampler Name F
 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? Denn + Lauren
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

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

September 17, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0622

Enclosed are results of analyses for samples received by the laboratory on September 14, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810622

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-3A-Bottom	1810622-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-4A-Bottom	1810622-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-53A-Sidewall	1810622-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-62A-Sidewall	1810622-04	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		98.4	70-130						9/15/18 9:06	
Toluene-d8		100	70-130						9/15/18 9:06	
4-Bromofluorobenzene		99.9	70-130						9/15/18 9:06	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.4	30-130						9/15/18 12:01	
2-Fluorobiphenyl		60.1	30-130						9/15/18 12:01	
p-Terphenyl-d14		73.6	30-130						9/15/18 12:01	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.7		30-150						9/17/18 12:55	
Decachlorobiphenyl [2]	77.6		30-150						9/17/18 12:55	
Tetrachloro-m-xylene [1]	84.6		30-150						9/17/18 12:55	
Tetrachloro-m-xylene [2]	84.6		30-150						9/17/18 12:55	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/16/18	9/16/18 16:10	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Ethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Toluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
1,2,4-Trimethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Xylenes (total)	ND	0.0071		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						9/15/18 9:33	
Toluene-d8		101	70-130						9/15/18 9:33	
4-Bromofluorobenzene		101	70-130						9/15/18 9:33	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		63.4	30-130						9/15/18 12:24	
2-Fluorobiphenyl		66.3	30-130						9/15/18 12:24	
p-Terphenyl-d14		66.1	30-130						9/15/18 12:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.8		30-150						9/17/18 13:09	
Decachlorobiphenyl [2]	68.3		30-150						9/17/18 13:09	
Tetrachloro-m-xylene [1]	66.9		30-150						9/17/18 13:09	
Tetrachloro-m-xylene [2]	66.1		30-150						9/17/18 13:09	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Conventional 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	9/16/18	9/16/18 16:11	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
1,2,4-Trimethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130					9/15/18	9:59	
Toluene-d8		100	70-130					9/15/18	9:59	
4-Bromofluorobenzene		100	70-130					9/15/18	9:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.14	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Anthracene	0.16	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(a)anthracene	0.15	0.20	0.052	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(a)pyrene	0.16	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(b)fluoranthene	0.11	0.20	0.055	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Chrysene	0.15	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Fluoranthene	0.33	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Fluorene	0.068	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
2-Methylnaphthalene	0.14	0.20	0.068	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Naphthalene	0.12	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Phenanthrene	0.52	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Pyrene	0.85	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	61.7		30-130				9/15/18 12:48			
2-Fluorobiphenyl	67.7		30-130				9/15/18 12:48			
p-Terphenyl-d14	72.6		30-130				9/15/18 12:48			

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.6		30-150						9/17/18 13:24	
Decachlorobiphenyl [2]	72.8		30-150						9/17/18 13:24	
Tetrachloro-m-xylene [1]	77.4		30-150						9/17/18 13:24	
Tetrachloro-m-xylene [2]	74.7		30-150						9/17/18 13:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	9/16/18	9/16/18 16:11	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		97.8	70-130						9/17/18 8:12	
Toluene-d8		99.5	70-130						9/17/18 8:12	
4-Bromofluorobenzene		103	70-130						9/17/18 8:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Acenaphthylene	ND	0.22	0.074	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(g,h,i)perylene	ND	0.22	0.097	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.7	30-130						9/15/18 13:12	
2-Fluorobiphenyl		65.0	30-130						9/15/18 13:12	
p-Terphenyl-d14		83.7	30-130						9/15/18 13:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0052	0.00039	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
4,4'-DDT [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Endosulfan I [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.7		30-150						9/17/18 13:45	
Decachlorobiphenyl [2]	53.1		30-150						9/17/18 13:45	
Tetrachloro-m-xylene [1]	51.6		30-150						9/17/18 13:45	
Tetrachloro-m-xylene [2]	50.5		30-150						9/17/18 13:45	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/16/18	9/16/18 16:11	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212584	09/16/18
18I0622-02 [OU2-SED-4A-Bottom]	B212584	09/16/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212584	09/16/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212584	09/16/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212471	10.1	10.0	09/14/18
18I0622-02 [OU2-SED-4A-Bottom]	B212471	10.5	10.0	09/14/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212471	10.1	10.0	09/14/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212471	10.0	10.0	09/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212572	8.97	10.0	09/15/18
18I0622-02 [OU2-SED-4A-Bottom]	B212572	5.07	10.0	09/15/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212572	6.28	10.0	09/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-04 [OU2-SED-62A-Sidewall]	B212589	9.25	10.0	09/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212473	30.3	1.00	09/14/18
18I0622-02 [OU2-SED-4A-Bottom]	B212473	30.1	1.00	09/14/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212473	30.0	1.00	09/14/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212473	30.4	1.00	09/14/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212572 - SW-846 5035										
Blank (B212572-BLK1)										
Prepared & Analyzed: 09/15/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0540		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			
LCS (B212572-BS1)										
Prepared & Analyzed: 09/15/18										
Benzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Isopropylbenzene (Cumene)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2,4-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B212572-BSD1)										
Prepared & Analyzed: 09/15/18										
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	2.87	25	
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.02	25	
Isopropylbenzene (Cumene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.62	25	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.85	25	
1,2,4-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.40	25	
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130	0.134	25	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.34	25	
Surrogate: 1,2-Dichloroethane-d4	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Batch B212589 - SW-846 5035										
Blank (B212589-BLK1)										
Prepared & Analyzed: 09/17/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212589 - SW-846 5035										
LCS (B212589-BS1)										
Prepared & Analyzed: 09/17/18										
Benzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
m+p Xylene	0.0395	0.0040	mg/Kg wet	0.0400		98.8	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0429		mg/Kg wet	0.0500		85.9	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B212589-BSD1)										
Prepared & Analyzed: 09/17/18										
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	7.27	25	
Ethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.791	25	
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.44	25	
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	12.3	25	
1,2,4-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	3.78	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.8	70-130	2.15	25	
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	3.81	25	
Surrogate: 1,2-Dichloroethane-d4	0.0526		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212473 - SW-846 3546										
Blank (B212473-BLK1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.54		mg/Kg wet	3.33		76.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.85		mg/Kg wet	3.33		85.5	30-130			
Surrogate: p-Terphenyl-d14	3.15		mg/Kg wet	3.33		94.6	30-130			
LCS (B212473-BS1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Chrysene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		83.7	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140			
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.33		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		79.0	30-130			
Surrogate: p-Terphenyl-d14	3.02		mg/Kg wet	3.33		90.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212473 - SW-846 3546										
LCS Dup (B212473-BSD1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	1.57	30	
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140	0.0295	30	
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140	1.58	30	
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	1.59	30	
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	0.962	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	1.46	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	1.16	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	0.663	30	
Chrysene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.427	30	
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.67		82.5	40-140	1.44	30	
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	0.711	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.0848	30	
Indeno(1,2,3-cd)pyrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	0.510	30	
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	0.0540	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	2.68	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	0.624	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	2.04	30	
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	3.01		mg/Kg wet	3.33		90.3	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212471 - SW-846 3546										
Blank (B212471-BLK1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		89.8	30-150			
LCS (B212471-BS1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDE [2C]	0.098	0.0040	mg/Kg wet	0.100		98.4	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		93.0	40-140			
4,4'-DDT [2C]	0.083	0.0040	mg/Kg wet	0.100		83.2	40-140			
Endosulfan I	0.098	0.0050	mg/Kg wet	0.100		97.7	40-140			
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.100		93.6	40-140			
Endosulfan II	0.098	0.0080	mg/Kg wet	0.100		97.5	40-140			
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		93.1	40-140			
Surrogate: Decachlorobiphenyl	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.173		mg/Kg wet	0.200		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			
LCS Dup (B212471-BSD1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		104	40-140	0.832	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		99.7	40-140	1.33	30	
4,4'-DDT	0.092	0.0040	mg/Kg wet	0.100		91.8	40-140	1.28	30	
4,4'-DDT [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	1.45	30	
Endosulfan I	0.098	0.0050	mg/Kg wet	0.100		97.7	40-140	0.00717	30	
Endosulfan I [2C]	0.093	0.0050	mg/Kg wet	0.100		93.1	40-140	0.560	30	
Endosulfan II	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	0.114	30	
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		92.6	40-140	0.585	30	
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		89.8	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S027340-PEM1 **Analyzed:** 09/17/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.95
Endrin [1]	4.93

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.84
Endrin [2]	4.94

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212471-BS1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.754	6.724	6.784	0.10	
	2	6.849	6.818	6.878	0.098	2.0
4,4'-DDT	1	7.400	7.369	7.429	0.093	
	2	7.519	7.489	7.549	0.083	11.4
Endosulfan I	1	6.792	6.762	6.822	0.098	
	2	6.760	6.729	6.789	0.094	4.2
Endosulfan II	1	7.299	7.269	7.329	0.098	
	2	7.344	7.314	7.374	0.093	5.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B212471-BSD1 Date(s) Analyzed 09/17/2018 09/17/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.754	6.724	6.784	0.10	
	2	6.849	6.818	6.878	0.10	0.0
4,4'-DDT	1	7.400	7.369	7.429	0.092	
	2	7.519	7.489	7.549	0.082	11.5
Endosulfan I	1	6.792	6.762	6.822	0.098	
	2	6.760	6.729	6.789	0.093	5.2
Endosulfan II	1	7.299	7.269	7.329	0.097	
	2	7.344	7.314	7.374	0.093	4.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Requested Turnaround Time
 7-Day 10-Day
 Due Date: Rush-Approval Required

1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other:

CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #:

Company Name: **LAND remediation**
 Address: 74 Hudson River Road Waterford, NY
 Project Name: **NYSDEC Saranac Lake Gas Co.**
 Project Location: **OU_2 Sed**
 Project Number:
 Project Manager: **Matthew Warren**
 Con-Test Quote Name/Number:
 Invoice Recipient: **miw@land-remediation.com**
 Sampled By: **Ethan Brandt**

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-3A-Bottom	9/13/2018 13:49	9/13/2018 13:55	X	S	L	X
2	OU2-SED-4A-Bottom	9/13/2018 14:02	9/13/2018 14:36	X	S	L	X
3	OU2-SED-53A-Sidewall	9/13/2018 13:08	9/13/2018 13:17	X	S	L	X
4	OU2-SED-62A-Sidewall	9/14/2018 9:05	9/14/2018 9:10	X	S	L	X

ANALYSIS REQUESTED
 8260 Standard*
 8270 PAH

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

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) *[Signature]* Date/Time: 9/14 9:25
 Received by: (signature) *[Signature]* Date/Time: 9/14-18 9:25A
 Relinquished by: (signature) *[Signature]* Date/Time: 9/14-18 12:00P
 Delivered by: (signature) *[Signature]* Date/Time: 9/14/18 2:00P
 Relinquished by: (signature) *[Signature]* Date/Time: 9/14/18 2:51
 Delivered by: (signature) *[Signature]* Date/Time: 9-14-18 14:51

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC Equis EDD
 Equis (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City

Municipality
 MWRA
 School
 MBTA

Other
 WRTA
 Chromatogram
 AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Long Remediation

Received By ESD Date 9-14-18 Time 14:51

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 # 573 Actual Temp - 5.5
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? 12/1/18
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T MS/MSD? F
Is there Headspace where applicable? F Is splitting samples required? F
Proper Media/Containers Used? T On COC? F

Were trip blanks received? F Acid _____ Base _____
Do all samples have the proper pH? NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	4	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	2	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:

September 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0862

Enclosed are results of analyses for samples received by the laboratory on September 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810862

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-10-bottom	1810862-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-11-bottom	1810862-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-12-bottom	1810862-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-65-sidewall	1810862-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-66-sidewall	1810862-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-67-sidewall	1810862-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-68-sidewall	1810862-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-69-sidewall	1810862-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-70-sidewall	1810862-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 09/24/2018: Report revised for Method 8260 to report low-level VOCs for samples 18I0862-02, 18I0862-03, 18I0862-05, 18I0862-07, and 18I0862-09.

For method 8270, only PAHs were requested and reported.

SW-846 8260C**Qualifications:****RL-13**

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

18I0862-01[OU2-SED-10-bottom], 18I0862-04[OU2-SED-65-sidewall], 18I0862-06[OU2-SED-67-sidewall], 18I0862-08[OU2-SED-69-sidewall]

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. Kopycinski
Laboratory Director

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-10-bottom

Sample ID: 1810862-01

Start Date/Time: 9/18/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:20:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
Ethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
Isopropylbenzene (Cumene)	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
Toluene	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
1,2,4-Trimethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
m+p Xylene	ND	0.094		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
o-Xylene	ND	0.047		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
Xylenes (total)	ND	0.14		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 6:46	EEH
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		79.8		70-130					9/21/18 6:46	
Toluene-d8		101		70-130					9/21/18 6:46	
4-Bromofluorobenzene		103		70-130					9/21/18 6:46	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-10-bottom

Sample ID: 1810862-01

Start Date/Time: 9/18/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Dibenz(a,h)anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 0:58	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.0	30-130						9/21/18 0:58	
2-Fluorobiphenyl		81.6	30-130						9/21/18 0:58	
p-Terphenyl-d14		95.8	30-130						9/21/18 0:58	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-10-bottom

Sample ID: 1810862-01

Start Date/Time: 9/18/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:01	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:01	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:01	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:01	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	106		30-150						9/21/18 1:01	
Decachlorobiphenyl [2]	83.9		30-150						9/21/18 1:01	
Tetrachloro-m-xylene [1]	90.1		30-150						9/21/18 1:01	
Tetrachloro-m-xylene [2]	86.7		30-150						9/21/18 1:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-10-bottom

Sample ID: 1810862-01

Start Date/Time: 9/18/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:20:00PM

Conventional 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	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-11-bottom

Sample ID: 1810862-02

Start Date/Time: 9/18/2018 3:00:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:06:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
Ethylbenzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
Isopropylbenzene (Cumene)	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
Toluene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
1,2,4-Trimethylbenzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
m+p Xylene	ND	0.097		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
o-Xylene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:03	MFF
Xylenes (total)	ND	0.15		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:12	EEH
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		79.3	70-130						9/21/18 7:12	
1,2-Dichloroethane-d4		101	70-130						9/22/18 8:03	
Toluene-d8		101	70-130						9/21/18 7:12	
Toluene-d8		100	70-130						9/22/18 8:03	
4-Bromofluorobenzene		102	70-130						9/21/18 7:12	
4-Bromofluorobenzene		102	70-130						9/22/18 8:03	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-11-bottom

Sample ID: 1810862-02

Start Date/Time: 9/18/2018 3:00:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:06:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:21	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		77.3	30-130						9/21/18 1:21	
2-Fluorobiphenyl		83.6	30-130						9/21/18 1:21	
p-Terphenyl-d14		97.5	30-130						9/21/18 1:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-11-bottom

Sample ID: 1810862-02

Start Date/Time: 9/18/2018 3:00:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:06:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:28	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:28	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:28	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:28	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	94.5		30-150						9/21/18 1:28	
Decachlorobiphenyl [2]	75.5		30-150						9/21/18 1:28	
Tetrachloro-m-xylene [1]	81.5		30-150						9/21/18 1:28	
Tetrachloro-m-xylene [2]	81.4		30-150						9/21/18 1:28	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-11-bottom

Sample ID: 1810862-02

Start Date/Time: 9/18/2018 3:00:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:06:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-12-bottom

Sample ID: 1810862-03

Start Date/Time: 9/18/2018 3:31:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
Ethylbenzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
Isopropylbenzene (Cumene)	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
Toluene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
1,2,4-Trimethylbenzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
m+p Xylene	ND	0.091		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
o-Xylene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
Xylenes (total)	ND	0.14		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 7:39	EEH
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:30	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		79.7	70-130						9/21/18 7:39	
1,2-Dichloroethane-d4		105	70-130						9/22/18 8:30	
Toluene-d8		99.7	70-130						9/21/18 7:39	
Toluene-d8		99.5	70-130						9/22/18 8:30	
4-Bromofluorobenzene		102	70-130						9/21/18 7:39	
4-Bromofluorobenzene		101	70-130						9/22/18 8:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-12-bottom

Sample ID: 1810862-03

Start Date/Time: 9/18/2018 3:31:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Pyrene	0.099	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	9/20/18	9/21/18 1:44	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		68.2	30-130						9/21/18 1:44	
2-Fluorobiphenyl		77.2	30-130						9/21/18 1:44	
p-Terphenyl-d14		96.4	30-130						9/21/18 1:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-12-bottom

Sample ID: 1810862-03

Start Date/Time: 9/18/2018 3:31:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:55	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:55	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:55	TG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 1:55	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.7		30-150						9/21/18 1:55	
Decachlorobiphenyl [2]	72.7		30-150						9/21/18 1:55	
Tetrachloro-m-xylene [1]	76.9		30-150						9/21/18 1:55	
Tetrachloro-m-xylene [2]	76.4		30-150						9/21/18 1:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-12-bottom

Sample ID: 1810862-03

Start Date/Time: 9/18/2018 3:31:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:40:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-65-sidewall

Sample ID: 1810862-04

Start Date/Time: 9/18/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:29:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
Ethylbenzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
Isopropylbenzene (Cumene)	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
Toluene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
1,2,4-Trimethylbenzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
m+p Xylene	ND	0.096		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
o-Xylene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
Xylenes (total)	ND	0.14		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:05	EEH
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		79.6		70-130					9/21/18 8:05	
Toluene-d8		97.8		70-130					9/21/18 8:05	
4-Bromofluorobenzene		99.2		70-130					9/21/18 8:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-65-sidewall

Sample ID: 1810862-04

Start Date/Time: 9/18/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:29:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.13	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
2-Methylnaphthalene	0.10	0.20	0.069	mg/Kg dry	1	J	SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:07	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		77.0	30-130						9/21/18 2:07	
2-Fluorobiphenyl		80.9	30-130						9/21/18 2:07	
p-Terphenyl-d14		95.3	30-130						9/21/18 2:07	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-65-sidewall

Sample ID: 1810862-04

Start Date/Time: 9/18/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:29:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:22	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:22	TG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:22	TG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:22	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.1		30-150						9/21/18 2:22	
Decachlorobiphenyl [2]	77.6		30-150						9/21/18 2:22	
Tetrachloro-m-xylene [1]	82.6		30-150						9/21/18 2:22	
Tetrachloro-m-xylene [2]	77.6		30-150						9/21/18 2:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-65-sidewall

Sample ID: 1810862-04

Start Date/Time: 9/18/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:29:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-66-sidewall

Sample ID: 1810862-05

Start Date/Time: 9/18/2018 2:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:39:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
Ethylbenzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
Isopropylbenzene (Cumene)	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
Toluene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
1,2,4-Trimethylbenzene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
m+p Xylene	ND	0.089		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
o-Xylene	ND	0.045		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 8:59	MFF
Xylenes (total)	ND	0.13		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	79.4	70-130	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	100	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	102	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-66-sidewall

Sample ID: 1810862-05

Start Date/Time: 9/18/2018 2:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:39:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		75.3	30-130						9/21/18 2:30	
2-Fluorobiphenyl		82.3	30-130						9/21/18 2:30	
p-Terphenyl-d14		97.5	30-130						9/21/18 2:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-66-sidewall

Sample ID: 1810862-05

Start Date/Time: 9/18/2018 2:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:39:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:48	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:48	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:48	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 2:48	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.0		30-150						9/21/18 2:48	
Decachlorobiphenyl [2]	76.4		30-150						9/21/18 2:48	
Tetrachloro-m-xylene [1]	78.2		30-150						9/21/18 2:48	
Tetrachloro-m-xylene [2]	78.3		30-150						9/21/18 2:48	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-66-sidewall

Sample ID: 1810862-05

Start Date/Time: 9/18/2018 2:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 2:39:00PM

Conventional 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	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-67-sidewall

Sample ID: 1810862-06

Start Date/Time: 9/18/2018 3:07:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:12:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
Ethylbenzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
Isopropylbenzene (Cumene)	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
Toluene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
1,2,4-Trimethylbenzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
m+p Xylene	ND	0.099		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
o-Xylene	ND	0.049		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
Xylenes (total)	ND	0.15		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:50	EEH
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		77.3		70-130					9/21/18 9:50	
Toluene-d8		99.7		70-130					9/21/18 9:50	
4-Bromofluorobenzene		102		70-130					9/21/18 9:50	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-67-sidewall

Sample ID: 1810862-06

Start Date/Time: 9/18/2018 3:07:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:12:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.40	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Fluorene	0.15	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
2-Methylnaphthalene	0.60	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Naphthalene	0.28	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 2:54	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	76.3		30-130				9/21/18 2:54			
2-Fluorobiphenyl	81.5		30-130				9/21/18 2:54			
p-Terphenyl-d14	99.4		30-130				9/21/18 2:54			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-67-sidewall

Sample ID: 1810862-06

Start Date/Time: 9/18/2018 3:07:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:12:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:15	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:15	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:15	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:15	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.7		30-150						9/21/18 3:15	
Decachlorobiphenyl [2]	74.7		30-150						9/21/18 3:15	
Tetrachloro-m-xylene [1]	75.4		30-150						9/21/18 3:15	
Tetrachloro-m-xylene [2]	69.5		30-150						9/21/18 3:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-67-sidewall

Sample ID: 1810862-06

Start Date/Time: 9/18/2018 3:07:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:12:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-68-sidewall

Sample ID: 1810862-07

Start Date/Time: 9/18/2018 3:13:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:23:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
Benzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
Ethylbenzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
Isopropylbenzene (Cumene)	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
Isopropylbenzene (Cumene)	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
Toluene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
1,2,4-Trimethylbenzene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
m+p Xylene	ND	0.095		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
o-Xylene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
o-Xylene	ND	0.048		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:26	MF
Xylenes (total)	ND	0.14		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 8:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	81.2	70-130	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	101	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	102	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-68-sidewall

Sample ID: 1810862-07

Start Date/Time: 9/18/2018 3:13:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:23:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:24	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		67.3	30-130						9/21/18 12:24	
2-Fluorobiphenyl		76.4	30-130						9/21/18 12:24	
p-Terphenyl-d14		88.2	30-130						9/21/18 12:24	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-68-sidewall

Sample ID: 1810862-07

Start Date/Time: 9/18/2018 3:13:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:23:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:42	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:42	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:42	TG
Endosulfan II [1]	ND	0.010	0.00037	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 3:42	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.7		30-150						9/21/18 3:42	
Decachlorobiphenyl [2]	67.0		30-150						9/21/18 3:42	
Tetrachloro-m-xylene [1]	73.9		30-150						9/21/18 3:42	
Tetrachloro-m-xylene [2]	74.1		30-150						9/21/18 3:42	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-68-sidewall

Sample ID: 1810862-07

Start Date/Time: 9/18/2018 3:13:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:23:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-69-sidewall

Sample ID: 1810862-08

Start Date/Time: 9/18/2018 3:41:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:48:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
Ethylbenzene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
Isopropylbenzene (Cumene)	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
Toluene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
1,2,4-Trimethylbenzene	0.050	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
m+p Xylene	ND	0.086		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
o-Xylene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
Xylenes (total)	ND	0.13		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 10:17	EEH
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		78.8		70-130					9/21/18 10:17	
Toluene-d8		99.6		70-130					9/21/18 10:17	
4-Bromofluorobenzene		102		70-130					9/21/18 10:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-69-sidewall

Sample ID: 1810862-08

Start Date/Time: 9/18/2018 3:41:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:48:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.84	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Fluorene	0.086	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
2-Methylnaphthalene	1.4	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Naphthalene	0.96	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 12:48	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	77.3		30-130				9/21/18 12:48			
2-Fluorobiphenyl	81.2		30-130				9/21/18 12:48			
p-Terphenyl-d14	89.2		30-130				9/21/18 12:48			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-69-sidewall

Sample ID: 1810862-08

Start Date/Time: 9/18/2018 3:41:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:48:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:09	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:09	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:09	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:09	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.7		30-150						9/21/18 4:09	
Decachlorobiphenyl [2]	80.2		30-150						9/21/18 4:09	
Tetrachloro-m-xylene [1]	85.0		30-150						9/21/18 4:09	
Tetrachloro-m-xylene [2]	80.4		30-150						9/21/18 4:09	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-69-sidewall

Sample ID: 1810862-08

Start Date/Time: 9/18/2018 3:41:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:48:00PM

Conventional 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	9/20/18	9/21/18 12:35	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-70-sidewall

Sample ID: 1810862-09

Start Date/Time: 9/18/2018 3:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Ethylbenzene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
Isopropylbenzene (Cumene)	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Toluene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
1,2,4-Trimethylbenzene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
m+p Xylene	ND	0.085		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
o-Xylene	ND	0.043		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Xylenes (total)	ND	0.13		mg/Kg dry	1		SW-846 8260C	9/20/18	9/21/18 9:24	EEH
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/22/18	9/22/18 9:53	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		79.0	70-130						9/21/18 9:24	
1,2-Dichloroethane-d4		104	70-130						9/22/18 9:53	
Toluene-d8		100	70-130						9/21/18 9:24	
Toluene-d8		100	70-130						9/22/18 9:53	
4-Bromofluorobenzene		102	70-130						9/21/18 9:24	
4-Bromofluorobenzene		102	70-130						9/22/18 9:53	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-70-sidewall

Sample ID: 1810862-09

Start Date/Time: 9/18/2018 3:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Naphthalene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/20/18	9/21/18 13:12	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		83.3	30-130						9/21/18 13:12	
2-Fluorobiphenyl		89.0	30-130						9/21/18 13:12	
p-Terphenyl-d14		99.1	30-130						9/21/18 13:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-70-sidewall

Sample ID: 1810862-09

Start Date/Time: 9/18/2018 3:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:36	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:36	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:36	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	9/20/18	9/21/18 4:36	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	102		30-150						9/21/18 4:36	
Decachlorobiphenyl [2]	81.9		30-150						9/21/18 4:36	
Tetrachloro-m-xylene [1]	88.6		30-150						9/21/18 4:36	
Tetrachloro-m-xylene [2]	91.0		30-150						9/21/18 4:36	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810862

Date Received: 9/20/2018

Field Sample #: OU2-SED-70-sidewall

Sample ID: 1810862-09

Start Date/Time: 9/18/2018 3:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/18/2018 3:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	9/20/18	9/21/18 12:35	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0862-01 [OU2-SED-10-bottom]	B212961	09/20/18
18I0862-02 [OU2-SED-11-bottom]	B212961	09/20/18
18I0862-03 [OU2-SED-12-bottom]	B212961	09/20/18
18I0862-04 [OU2-SED-65-sidewall]	B212961	09/20/18
18I0862-05 [OU2-SED-66-sidewall]	B212961	09/20/18
18I0862-06 [OU2-SED-67-sidewall]	B212961	09/20/18
18I0862-07 [OU2-SED-68-sidewall]	B212961	09/20/18
18I0862-08 [OU2-SED-69-sidewall]	B212961	09/20/18
18I0862-09 [OU2-SED-70-sidewall]	B212961	09/20/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0862-01 [OU2-SED-10-bottom]	B212955	10.0	10.0	09/20/18
18I0862-02 [OU2-SED-11-bottom]	B212955	10.0	10.0	09/20/18
18I0862-03 [OU2-SED-12-bottom]	B212955	10.0	10.0	09/20/18
18I0862-04 [OU2-SED-65-sidewall]	B212955	10.0	10.0	09/20/18
18I0862-05 [OU2-SED-66-sidewall]	B212955	10.0	10.0	09/20/18
18I0862-06 [OU2-SED-67-sidewall]	B212955	10.0	10.0	09/20/18
18I0862-07 [OU2-SED-68-sidewall]	B212955	10.0	10.0	09/20/18
18I0862-08 [OU2-SED-69-sidewall]	B212955	10.0	10.0	09/20/18
18I0862-09 [OU2-SED-70-sidewall]	B212955	10.0	10.0	09/20/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18I0862-01 [OU2-SED-10-bottom]	B212958	8.17	6.39	1	50	09/20/18
18I0862-02 [OU2-SED-11-bottom]	B212958	8.48	6.64	1	50	09/20/18
18I0862-03 [OU2-SED-12-bottom]	B212958	8.93	6.63	1	50	09/20/18
18I0862-04 [OU2-SED-65-sidewall]	B212958	7.40	6.06	1	50	09/20/18
18I0862-05 [OU2-SED-66-sidewall]	B212958	8.22	6.24	1	50	09/20/18
18I0862-06 [OU2-SED-67-sidewall]	B212958	8.35	6.63	1	50	09/20/18
18I0862-07 [OU2-SED-68-sidewall]	B212958	8.79	6.73	1	50	09/20/18
18I0862-08 [OU2-SED-69-sidewall]	B212958	8.96	6.47	1	50	09/20/18
18I0862-09 [OU2-SED-70-sidewall]	B212958	7.68	5.84	1	50	09/20/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0862-02 [OU2-SED-11-bottom]	B213139	8.59	10.0	09/22/18
18I0862-03 [OU2-SED-12-bottom]	B213139	8.84	10.0	09/22/18
18I0862-05 [OU2-SED-66-sidewall]	B213139	8.55	10.0	09/22/18
18I0862-07 [OU2-SED-68-sidewall]	B213139	9.20	10.0	09/22/18
18I0862-09 [OU2-SED-70-sidewall]	B213139	7.99	10.0	09/22/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0862-01 [OU2-SED-10-bottom]	B212956	30.0	1.00	09/20/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0862-02 [OU2-SED-11-bottom]	B212956	30.0	1.00	09/20/18
18I0862-03 [OU2-SED-12-bottom]	B212956	30.0	1.00	09/20/18
18I0862-04 [OU2-SED-65-sidewall]	B212956	30.0	1.00	09/20/18
18I0862-05 [OU2-SED-66-sidewall]	B212956	30.0	1.00	09/20/18
18I0862-06 [OU2-SED-67-sidewall]	B212956	30.0	1.00	09/20/18
18I0862-07 [OU2-SED-68-sidewall]	B212956	30.0	1.00	09/20/18
18I0862-08 [OU2-SED-69-sidewall]	B212956	30.0	1.00	09/20/18
18I0862-09 [OU2-SED-70-sidewall]	B212956	30.0	1.00	09/20/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212958 - SW-846 5035

Blank (B212958-BLK1)

Prepared: 09/20/18 Analyzed: 09/21/18

Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg wet							
Vinyl Chloride	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.15	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0198		mg/Kg wet	0.0250		79.1	70-130			
Surrogate: Toluene-d8	0.0247		mg/Kg wet	0.0250		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0246		mg/Kg wet	0.0250		98.5	70-130			

LCS (B212958-BS1)

Prepared: 09/20/18 Analyzed: 09/21/18

Benzene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130			
Ethylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
Isopropylbenzene (Cumene)	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
Toluene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2,4-Trichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Vinyl Chloride	0.0102	0.0023	mg/Kg wet	0.0113		89.6	40-130			†
m+p Xylene	0.0237	0.0023	mg/Kg wet	0.0227		105	70-130			
o-Xylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0224		mg/Kg wet	0.0283		79.1	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0283		99.2	70-130			

LCS Dup (B212958-BS1)

Prepared: 09/20/18 Analyzed: 09/21/18

Benzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130	3.93	25	
Ethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130	3.14	25	
Isopropylbenzene (Cumene)	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	2.54	25	
Toluene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	4.72	25	
1,2,4-Trichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	0.561	25	
Vinyl Chloride	0.0107	0.0023	mg/Kg wet	0.0113		94.7	40-130	5.53	25	†
m+p Xylene	0.0242	0.0023	mg/Kg wet	0.0227		107	70-130	2.03	25	
o-Xylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	1.92	25	
Surrogate: 1,2-Dichloroethane-d4	0.0220		mg/Kg wet	0.0283		77.7	70-130			
Surrogate: Toluene-d8	0.0284		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0282		mg/Kg wet	0.0283		99.4	70-130			

Batch B213139 - SW-846 5035

Blank (B213139-BLK1)

Prepared & Analyzed: 09/22/18

Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0488		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B213139 - SW-846 5035

Blank (B213139-BLK1)

Prepared & Analyzed: 09/22/18

LCS (B213139-BS1)

Prepared & Analyzed: 09/22/18

Benzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Isopropylbenzene (Cumene)	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Toluene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
1,2,4-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		93.9	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/Kg wet	0.0500		102	70-130			

LCS Dup (B213139-BSD1)

Prepared & Analyzed: 09/22/18

Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	4.93	25	
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	0.516	25	
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.35	25	
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	1.23	25	
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	1.40	25	
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.6	70-130	3.86	25	
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	1.06	25	

Surrogate: 1,2-Dichloroethane-d4	0.0488		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212956 - SW-846 3546										
Blank (B212956-BLK1)										
Prepared & Analyzed: 09/20/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.66		mg/Kg wet	3.33		79.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.78		mg/Kg wet	3.33		83.3	30-130			
Surrogate: p-Terphenyl-d14	3.16		mg/Kg wet	3.33		94.9	30-130			
LCS (B212956-BS1)										
Prepared & Analyzed: 09/20/18										
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Acenaphthylene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Anthracene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140			
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
Benzo(g,h,i)perylene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Fluoranthene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140			
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Indeno(1,2,3-cd)pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Naphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
Surrogate: Nitrobenzene-d5	2.53		mg/Kg wet	3.33		76.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.77		mg/Kg wet	3.33		83.0	30-130			
Surrogate: p-Terphenyl-d14	2.93		mg/Kg wet	3.33		88.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212956 - SW-846 3546										
LCS Dup (B212956-BSD1)										
Prepared & Analyzed: 09/20/18										
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140	0.524	30	
Acenaphthylene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	1.35	30	
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	1.86	30	
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	0.656	30	
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140	0.822	30	
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	1.44	30	
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	2.11	30	
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	0.490	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	0.179	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	1.96	30	
Fluoranthene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	6.45	30	
Fluorene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	3.17	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	0.601	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	2.21	30	
Naphthalene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	3.64	30	
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	0.928	30	
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	3.75	30	
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		77.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.4	30-130			
Surrogate: p-Terphenyl-d14	2.77		mg/Kg wet	3.33		83.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212955 - SW-846 3546										
Blank (B212955-BLK1)										
Prepared & Analyzed: 09/20/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.183		mg/Kg wet	0.200		91.6	30-150			
LCS (B212955-BS1)										
Prepared: 09/20/18 Analyzed: 09/21/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		110	40-140			
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		108	40-140			
4,4'-DDT	0.098	0.0040	mg/Kg wet	0.100		98.0	40-140			
4,4'-DDT [2C]	0.089	0.0040	mg/Kg wet	0.100		89.1	40-140			
Endosulfan I	0.11	0.0050	mg/Kg wet	0.100		106	40-140			
Endosulfan I [2C]	0.10	0.0050	mg/Kg wet	0.100		103	40-140			
Endosulfan II	0.11	0.0080	mg/Kg wet	0.100		106	40-140			
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Surrogate: Decachlorobiphenyl	0.239		mg/Kg wet	0.200		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.189		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			
LCS Dup (B212955-BSD1)										
Prepared & Analyzed: 09/20/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		111	40-140	0.422	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		105	40-140	2.13	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140	4.14	30	
4,4'-DDT [2C]	0.099	0.0040	mg/Kg wet	0.100		99.5	40-140	11.0	30	
Endosulfan I	0.11	0.0050	mg/Kg wet	0.100		106	40-140	0.0510	30	
Endosulfan I [2C]	0.10	0.0050	mg/Kg wet	0.100		101	40-140	2.25	30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.100		107	40-140	1.42	30	
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140	0.694	30	
Surrogate: Decachlorobiphenyl	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212961 - % Solids

Duplicate (B212961-DUP1)

Source: 1810862-01

Prepared: 09/20/18 Analyzed: 09/21/18

% Solids	83.3		% Wt		83.0			0.371	20	
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BREAKDOWN REPORT

Lab Sample ID: S027476-PEM1 **Analyzed:** 09/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 8.56
Endrin [1] 6.24

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 8.33
Endrin [2] 6.29

BREAKDOWN REPORT

Lab Sample ID: S027476-PEM2 **Analyzed:** 09/21/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.95
Endrin [1] 6.18

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.64
Endrin [2] 6.28

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212955-BS1 Date(s) Analyzed: 09/21/2018 09/21/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.748	6.718	6.778	0.11	
	2	6.845	6.815	6.875	0.11	0.0
4,4'-DDT	1	7.393	7.364	7.424	0.098	
	2	7.515	7.485	7.545	0.089	9.6
Endosulfan I	1	6.786	6.756	6.816	0.11	
	2	6.756	6.726	6.786	0.10	9.5
Endosulfan II	1	7.293	7.263	7.323	0.11	
	2	7.340	7.310	7.370	0.10	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B212955-BSD1 Date(s) Analyzed: 09/20/2018 09/20/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.749	6.718	6.778	0.11	
	2	6.845	6.815	6.875	0.11	0.0
4,4'-DDT	1	7.395	7.365	7.425	0.10	
	2	7.515	7.485	7.545	0.099	1.0
Endosulfan I	1	6.788	6.757	6.817	0.11	
	2	6.756	6.726	6.786	0.10	9.5
Endosulfan II	1	7.293	7.263	7.323	0.11	
	2	7.340	7.310	7.370	0.10	9.5

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
RL-13	Elevated reporting limit due to high concentration of non-target compounds.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810862



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND remediation

Address: 74 Hudson River Road Waterford, NY

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed

Project Number: Matthew Warren

Project Manager: Matthew Warren

Con-Test Quote Name/Number:

Invoice Recipient: miw@land-remediation.com

Sampled By: Ethan Brandt

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Requested Turnaround Time: 7-Day 10-Day

Due Date: Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day

Data Delivery: Format: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: 8081*

ANALYSIS REQUESTED

Con-Test Work Order#	Citent Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-10-bottom	9/18/2018 14:10	9/18/2018 14:20		X	S	L
2	OU2-SED-11-bottom	9/18/2018 15:00	9/18/2018 15:06		X	S	L
3	OU2-SED-12-bottom	9/18/2018 15:31	9/18/2018 15:40		X	S	L
4	OU2-SED-65-sidewall	9/18/2018 14:23	9/18/2018 14:29		X	S	L
5	OU2-SED-66-sidewall	9/18/2018 14:30	9/18/2018 14:39		X	S	L
6	OU2-SED-67-sidewall	9/18/2018 15:07	9/18/2018 15:12		X	S	L
7	OU2-SED-68-sidewall	9/18/2018 15:13	9/18/2018 15:23		X	S	L
8	OU2-SED-69-sidewall	9/18/2018 15:41	9/18/2018 15:48		X	S	L
9	OU2-SED-70-sidewall	9/18/2018 15:23	9/18/2018 15:30		X	S	L

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

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

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

PCB ONLY
 Soxhlet
 Non Soxhlet

Comments: *8081- 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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

Deliverables:
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program 8: Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 WRTA
 School
 MBTA
 Chromatogram
 AIHA-LAP, LLC

Relinquished by: (signature) *Ethan Brandt* Date/Time: 9/19/15:00

Received by: (signature) *Matthew Warren* Date/Time: 9/20/18 9:16

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____



Sign In

TRACK ANOTHER SHIPMENT

813219360960



Delivered
Thursday 9/20/2018 at 9:16 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US

Travel History

Multiple-piece Shipment

Shipment Facts

9/20/2018 - Thursday

9:16 am

Delivered
MA

Expand History

9/19/2018 - Wednesday

4:05 pm

Picked up
PLATTSBURGH, NY

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LANGUAGE

Change Country

English

ASK FedEx

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 9/19/18 9/20/18 Time 9:16

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 # 557 Actual Temp - 2.3
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? Devin & Lauren

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

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

Were trip blanks received? F On COC? F

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

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz <u>Amb</u> Clear
Meoh-	<u>9</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>18</u>	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:

October 4, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0087

Enclosed are results of analyses for samples received by the laboratory on October 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0087

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-29-Bottom	18J0087-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-30-Bottom	18J0087-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-31-Bottom	18J0087-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-32-Bottom	18J0087-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-94-Sidewall	18J0087-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-95-Sidewall	18J0087-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-96-Sidewall	18J0087-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-97-Sidewall	18J0087-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-98-Sidewall	18J0087-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-99-Sidewall	18J0087-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0087

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-100-Sidewall	18J0087-11	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-101-Sidewall	18J0087-12	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Tod Kopyscinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopyscinski
Laboratory Director

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-29-Bottom

Sample ID: 18J0087-01

Start Date/Time: 10/1/2018 4:51:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:55:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:18	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 7:18	
Toluene-d8		98.0	70-130						10/3/18 7:18	
4-Bromofluorobenzene		99.9	70-130						10/3/18 7:18	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-29-Bottom

Sample ID: 18J0087-01

Start Date/Time: 10/1/2018 4:51:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:55:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:26	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		50.5	30-130						10/3/18 10:26	
2-Fluorobiphenyl		59.1	30-130						10/3/18 10:26	
p-Terphenyl-d14		70.2	30-130						10/3/18 10:26	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-29-Bottom

Sample ID: 18J0087-01

Start Date/Time: 10/1/2018 4:51:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:55:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:25	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:25	PJG
Endosulfan I [2]	0.0017	0.0061	0.00049	mg/Kg dry	1	J	SW-846 8081B	10/2/18	10/3/18 13:25	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:25	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.1		30-150						10/3/18 13:25	
Decachlorobiphenyl [2]	80.0		30-150						10/3/18 13:25	
Tetrachloro-m-xylene [1]	48.8		30-150						10/3/18 13:25	
Tetrachloro-m-xylene [2]	61.0		30-150						10/3/18 13:25	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-29-Bottom

Sample ID: 18J0087-01

Start Date/Time: 10/1/2018 4:51:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:55:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	10/2/18	10/3/18 7:47	KMG

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-30-Bottom

Sample ID: 18J0087-02

Start Date/Time: 10/1/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:08:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 7:45	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					10/3/18	7:45	
Toluene-d8		98.3	70-130					10/3/18	7:45	
4-Bromofluorobenzene		103	70-130					10/3/18	7:45	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-30-Bottom

Sample ID: 18J0087-02

Start Date/Time: 10/1/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:08:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Anthracene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Fluorene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:49	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		52.8	30-130						10/3/18 10:49	
2-Fluorobiphenyl		59.2	30-130						10/3/18 10:49	
p-Terphenyl-d14		69.2	30-130						10/3/18 10:49	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-30-Bottom

Sample ID: 18J0087-02

Start Date/Time: 10/1/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:08:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:47	PJG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:47	PJG
Endosulfan I [2]	0.0012	0.0058	0.00046	mg/Kg dry	1	J	SW-846 8081B	10/2/18	10/3/18 13:47	PJG
Endosulfan II [1]	ND	0.0092	0.00035	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 13:47	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.5		30-150						10/3/18 13:47	
Decachlorobiphenyl [2]	98.2		30-150						10/3/18 13:47	
Tetrachloro-m-xylene [1]	71.6		30-150						10/3/18 13:47	
Tetrachloro-m-xylene [2]	87.5		30-150						10/3/18 13:47	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-30-Bottom

Sample ID: 18J0087-02

Start Date/Time: 10/1/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:08:00PM

Conventional 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	10/2/18	10/3/18 7:47	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-31-Bottom

Sample ID: 18J0087-03

Start Date/Time: 10/1/2018 5:21:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:24:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:12	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 8:12	
Toluene-d8		98.6	70-130						10/3/18 8:12	
4-Bromofluorobenzene		100	70-130						10/3/18 8:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-31-Bottom

Sample ID: 18J0087-03

Start Date/Time: 10/1/2018 5:21:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:24:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:11	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		47.6	30-130						10/3/18 11:11	
2-Fluorobiphenyl		51.3	30-130						10/3/18 11:11	
p-Terphenyl-d14		76.9	30-130						10/3/18 11:11	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-31-Bottom

Sample ID: 18J0087-03

Start Date/Time: 10/1/2018 5:21:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:24:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:09	PJG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:09	PJG
Endosulfan I [1]	ND	0.0064	0.00051	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:09	PJG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:09	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	87.7		30-150						10/3/18 14:09	
Decachlorobiphenyl [2]	92.2		30-150						10/3/18 14:09	
Tetrachloro-m-xylene [1]	70.4		30-150						10/3/18 14:09	
Tetrachloro-m-xylene [2]	86.9		30-150						10/3/18 14:09	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-31-Bottom

Sample ID: 18J0087-03

Start Date/Time: 10/1/2018 5:21:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:24:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.6		% Wt	1		SM 2540G	10/2/18	10/3/18 7:47	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-32-Bottom

Sample ID: 18J0087-04

Start Date/Time: 10/1/2018 5:37:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 8:40	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130					10/3/18	8:40	
Toluene-d8		98.6	70-130					10/3/18	8:40	
4-Bromofluorobenzene		100	70-130					10/3/18	8:40	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-32-Bottom

Sample ID: 18J0087-04

Start Date/Time: 10/1/2018 5:37:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:33	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.8	30-130						10/3/18 11:33	
2-Fluorobiphenyl		61.2	30-130						10/3/18 11:33	
p-Terphenyl-d14		76.9	30-130						10/3/18 11:33	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-32-Bottom

Sample ID: 18J0087-04

Start Date/Time: 10/1/2018 5:37:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:31	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:31	PJG
Endosulfan I [1]	ND	0.0059	0.00048	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:31	PJG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:31	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.9		30-150						10/3/18 14:31	
Decachlorobiphenyl [2]	83.3		30-150						10/3/18 14:31	
Tetrachloro-m-xylene [1]	59.2		30-150						10/3/18 14:31	
Tetrachloro-m-xylene [2]	73.2		30-150						10/3/18 14:31	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-32-Bottom

Sample ID: 18J0087-04

Start Date/Time: 10/1/2018 5:37:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:40:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	10/2/18	10/3/18 7:47	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-94-Sidewall

Sample ID: 18J0087-05

Start Date/Time: 10/1/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
o-Xylene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:07	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 9:07	
Toluene-d8		98.7	70-130						10/3/18 9:07	
4-Bromofluorobenzene		102	70-130						10/3/18 9:07	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-94-Sidewall

Sample ID: 18J0087-05

Start Date/Time: 10/1/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:56	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		52.1	30-130						10/3/18 11:56	
2-Fluorobiphenyl		60.5	30-130						10/3/18 11:56	
p-Terphenyl-d14		89.5	30-130						10/3/18 11:56	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-94-Sidewall

Sample ID: 18J0087-05

Start Date/Time: 10/1/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:53	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:53	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:53	PJG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 14:53	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.8		30-150						10/3/18 14:53	
Decachlorobiphenyl [2]	82.1		30-150						10/3/18 14:53	
Tetrachloro-m-xylene [1]	61.7		30-150						10/3/18 14:53	
Tetrachloro-m-xylene [2]	76.1		30-150						10/3/18 14:53	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-94-Sidewall

Sample ID: 18J0087-05

Start Date/Time: 10/1/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:00:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	10/2/18	10/3/18 7:47	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-95-Sidewall

Sample ID: 18J0087-06

Start Date/Time: 10/1/2018 4:45:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:48:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 9:35	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/3/18 9:35	
Toluene-d8		98.2	70-130						10/3/18 9:35	
4-Bromofluorobenzene		98.7	70-130						10/3/18 9:35	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-95-Sidewall

Sample ID: 18J0087-06

Start Date/Time: 10/1/2018 4:45:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:48:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.15	0.22	0.066	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Acenaphthylene	ND	0.22	0.074	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Anthracene	0.14	0.22	0.064	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Benzo(a)anthracene	0.087	0.22	0.059	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Benzo(a)pyrene	0.084	0.22	0.069	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Benzo(g,h,i)perylene	ND	0.22	0.098	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Benzo(k)fluoranthene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Chrysene	0.081	0.22	0.069	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Fluoranthene	0.19	0.22	0.073	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Fluorene	0.10	0.22	0.072	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
2-Methylnaphthalene	0.15	0.22	0.077	mg/Kg dry	1	J	SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Phenanthrene	0.45	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Pyrene	0.37	0.22	0.073	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:19	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	53.1		30-130				10/3/18 12:19			
2-Fluorobiphenyl	53.4		30-130				10/3/18 12:19			
p-Terphenyl-d14	61.5		30-130				10/3/18 12:19			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-95-Sidewall

Sample ID: 18J0087-06

Start Date/Time: 10/1/2018 4:45:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:48:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0052	0.00039	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:15	PJG
4,4'-DDT [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:15	PJG
Endosulfan I [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:15	PJG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:15	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.2		30-150						10/3/18 15:15	
Decachlorobiphenyl [2]	81.7		30-150						10/3/18 15:15	
Tetrachloro-m-xylene [1]	64.5		30-150						10/3/18 15:15	
Tetrachloro-m-xylene [2]	79.0		30-150						10/3/18 15:15	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-95-Sidewall

Sample ID: 18J0087-06

Start Date/Time: 10/1/2018 4:45:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 4:48:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	10/2/18	10/3/18 7:48	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-96-Sidewall

Sample ID: 18J0087-07

Start Date/Time: 10/1/2018 5:15:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:18:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:04	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/3/18 10:04	
Toluene-d8		97.4	70-130						10/3/18 10:04	
4-Bromofluorobenzene		97.4	70-130						10/3/18 10:04	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-96-Sidewall

Sample ID: 18J0087-07

Start Date/Time: 10/1/2018 5:15:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:18:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 12:41	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		70.6	30-130						10/3/18 12:41	
2-Fluorobiphenyl		73.4	30-130						10/3/18 12:41	
p-Terphenyl-d14		90.6	30-130						10/3/18 12:41	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-96-Sidewall

Sample ID: 18J0087-07

Start Date/Time: 10/1/2018 5:15:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:18:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:37	PJG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:37	PJG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:37	PJG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:37	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.3		30-150						10/3/18 15:37	
Decachlorobiphenyl [2]	90.3		30-150						10/3/18 15:37	
Tetrachloro-m-xylene [1]	68.1		30-150						10/3/18 15:37	
Tetrachloro-m-xylene [2]	84.0		30-150						10/3/18 15:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-96-Sidewall

Sample ID: 18J0087-07

Start Date/Time: 10/1/2018 5:15:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:18:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	10/2/18	10/3/18 7:48	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-97-Sidewall

Sample ID: 18J0087-08

Start Date/Time: 10/1/2018 5:08:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:11:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
m+p Xylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:31	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/3/18 10:31	
Toluene-d8		97.4	70-130						10/3/18 10:31	
4-Bromofluorobenzene		102	70-130						10/3/18 10:31	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-97-Sidewall

Sample ID: 18J0087-08

Start Date/Time: 10/1/2018 5:08:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:11:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Acenaphthylene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Benzo(a)anthracene	ND	0.23	0.060	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Benzo(a)pyrene	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Benzo(b)fluoranthene	ND	0.23	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Benzo(k)fluoranthene	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Chrysene	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Fluoranthene	ND	0.23	0.074	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Fluorene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
2-Methylnaphthalene	ND	0.23	0.078	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Pyrene	ND	0.23	0.074	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:23	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.1	30-130						10/3/18 9:23	
2-Fluorobiphenyl		81.5	30-130						10/3/18 9:23	
p-Terphenyl-d14		86.5	30-130						10/3/18 9:23	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-97-Sidewall

Sample ID: 18J0087-08

Start Date/Time: 10/1/2018 5:08:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:11:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0053	0.00040	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:59	PJG
4,4'-DDT [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:59	PJG
Endosulfan I [1]	ND	0.0066	0.00053	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:59	PJG
Endosulfan II [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 15:59	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.6		30-150						10/3/18 15:59	
Decachlorobiphenyl [2]	87.4		30-150						10/3/18 15:59	
Tetrachloro-m-xylene [1]	66.7		30-150						10/3/18 15:59	
Tetrachloro-m-xylene [2]	82.6		30-150						10/3/18 15:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-97-Sidewall

Sample ID: 18J0087-08

Start Date/Time: 10/1/2018 5:08:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:11:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.2		% Wt	1		SM 2540G	10/2/18	10/3/18 7:48	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-98-Sidewall

Sample ID: 18J0087-09

Start Date/Time: 10/1/2018 5:27:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
Ethylbenzene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
Toluene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
m+p Xylene	ND	0.0035	0.0015	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
o-Xylene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
Xylenes (total)	ND	0.0052		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 10:58	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 10:58	
Toluene-d8		99.6	70-130						10/3/18 10:58	
4-Bromofluorobenzene		98.2	70-130						10/3/18 10:58	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-98-Sidewall

Sample ID: 18J0087-09

Start Date/Time: 10/1/2018 5:27:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.25	0.075	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Acenaphthylene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Anthracene	ND	0.25	0.072	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Benzo(a)anthracene	ND	0.25	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Benzo(a)pyrene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Benzo(b)fluoranthene	ND	0.25	0.070	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Benzo(k)fluoranthene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Chrysene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Fluoranthene	ND	0.25	0.082	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Fluorene	ND	0.25	0.080	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
2-Methylnaphthalene	ND	0.25	0.086	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Phenanthrene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Pyrene	ND	0.25	0.082	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 9:48	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		76.0	30-130						10/3/18 9:48	
2-Fluorobiphenyl		84.9	30-130						10/3/18 9:48	
p-Terphenyl-d14		82.0	30-130						10/3/18 9:48	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-98-Sidewall

Sample ID: 18J0087-09

Start Date/Time: 10/1/2018 5:27:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0058	0.00044	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:21	PJG
4,4'-DDT [1]	ND	0.0058	0.00058	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:21	PJG
Endosulfan I [1]	ND	0.0073	0.00058	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:21	PJG
Endosulfan II [1]	ND	0.012	0.00044	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:21	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.8		30-150						10/3/18 16:21	
Decachlorobiphenyl [2]	86.8		30-150						10/3/18 16:21	
Tetrachloro-m-xylene [1]	53.4		30-150						10/3/18 16:21	
Tetrachloro-m-xylene [2]	64.7		30-150						10/3/18 16:21	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-98-Sidewall

Sample ID: 18J0087-09

Start Date/Time: 10/1/2018 5:27:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.4		% Wt	1		SM 2540G	10/2/18	10/3/18 7:48	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-99-Sidewall

Sample ID: 18J0087-10

Start Date/Time: 10/1/2018 5:31:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:25	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 11:25	
Toluene-d8		96.2	70-130						10/3/18 11:25	
4-Bromofluorobenzene		99.8	70-130						10/3/18 11:25	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-99-Sidewall

Sample ID: 18J0087-10

Start Date/Time: 10/1/2018 5:31:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:33:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:13	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		67.0	30-130						10/3/18 10:13	
2-Fluorobiphenyl		80.7	30-130						10/3/18 10:13	
p-Terphenyl-d14		88.0	30-130						10/3/18 10:13	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-99-Sidewall

Sample ID: 18J0087-10

Start Date/Time: 10/1/2018 5:31:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:33:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:42	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:42	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:42	PJG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 16:42	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.5		30-150						10/3/18 16:42	
Decachlorobiphenyl [2]	94.3		30-150						10/3/18 16:42	
Tetrachloro-m-xylene [1]	66.5		30-150						10/3/18 16:42	
Tetrachloro-m-xylene [2]	82.3		30-150						10/3/18 16:42	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-99-Sidewall

Sample ID: 18J0087-10

Start Date/Time: 10/1/2018 5:31:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:33:00PM

Conventional 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	10/2/18	10/3/18 7:48	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-100-Sidewall

Sample ID: 18J0087-11

Start Date/Time: 10/1/2018 5:43:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:46:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
Toluene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
Xylenes (total)	ND	0.0050		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 11:52	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/3/18 11:52	
Toluene-d8		97.4	70-130						10/3/18 11:52	
4-Bromofluorobenzene		99.6	70-130						10/3/18 11:52	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-100-Sidewall

Sample ID: 18J0087-11

Start Date/Time: 10/1/2018 5:43:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:46:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Acenaphthylene	ND	0.23	0.077	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Anthracene	ND	0.23	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Benzo(a)anthracene	ND	0.23	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Benzo(a)pyrene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Benzo(b)fluoranthene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Benzo(k)fluoranthene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Chrysene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Fluoranthene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Fluorene	ND	0.23	0.074	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
2-Methylnaphthalene	ND	0.23	0.080	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Pyrene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 10:38	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		71.3	30-130						10/3/18 10:38	
2-Fluorobiphenyl		80.4	30-130						10/3/18 10:38	
p-Terphenyl-d14		81.6	30-130						10/3/18 10:38	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-100-Sidewall

Sample ID: 18J0087-11

Start Date/Time: 10/1/2018 5:43:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:46:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0054	0.00040	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:04	PJG
4,4'-DDT [1]	ND	0.0054	0.00054	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:04	PJG
Endosulfan I [1]	ND	0.0067	0.00054	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:04	PJG
Endosulfan II [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:04	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.3		30-150						10/3/18 17:04	
Decachlorobiphenyl [2]	88.0		30-150						10/3/18 17:04	
Tetrachloro-m-xylene [1]	68.8		30-150						10/3/18 17:04	
Tetrachloro-m-xylene [2]	85.5		30-150						10/3/18 17:04	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-100-Sidewall

Sample ID: 18J0087-11

Start Date/Time: 10/1/2018 5:43:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:46:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.1		% Wt	1		SM 2540G	10/2/18	10/3/18 7:49	KMG

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-101-Sidewall

Sample ID: 18J0087-12

Start Date/Time: 10/1/2018 5:47:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
o-Xylene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/3/18	10/3/18 12:19	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/3/18 12:19	
Toluene-d8		98.1	70-130						10/3/18 12:19	
4-Bromofluorobenzene		98.6	70-130						10/3/18 12:19	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-101-Sidewall

Sample ID: 18J0087-12

Start Date/Time: 10/1/2018 5:47:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:50:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/2/18	10/3/18 11:04	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		67.6	30-130						10/3/18 11:04	
2-Fluorobiphenyl		79.6	30-130						10/3/18 11:04	
p-Terphenyl-d14		86.7	30-130						10/3/18 11:04	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-101-Sidewall

Sample ID: 18J0087-12

Start Date/Time: 10/1/2018 5:47:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:50:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:26	PJG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:26	PJG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:26	PJG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	10/2/18	10/3/18 17:26	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.0		30-150				10/3/18 17:26			
Decachlorobiphenyl [2]	95.4		30-150				10/3/18 17:26			
Tetrachloro-m-xylene [1]	69.9		30-150				10/3/18 17:26			
Tetrachloro-m-xylene [2]	85.5		30-150				10/3/18 17:26			

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18J0087

Date Received: 10/2/2018

Field Sample #: OU2-SED-101-Sidewall

Sample ID: 18J0087-12

Start Date/Time: 10/1/2018 5:47:00PM

Sample Matrix: Soil

Stop Date/Time: 10/1/2018 5:50:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	10/2/18	10/3/18 7:49	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J0087-01 [OU2-SED-29-Bottom]	B213821	10/02/18
18J0087-02 [OU2-SED-30-Bottom]	B213821	10/02/18
18J0087-03 [OU2-SED-31-Bottom]	B213821	10/02/18
18J0087-04 [OU2-SED-32-Bottom]	B213821	10/02/18
18J0087-05 [OU2-SED-94-Sidewall]	B213821	10/02/18
18J0087-06 [OU2-SED-95-Sidewall]	B213821	10/02/18
18J0087-07 [OU2-SED-96-Sidewall]	B213821	10/02/18
18J0087-08 [OU2-SED-97-Sidewall]	B213821	10/02/18
18J0087-09 [OU2-SED-98-Sidewall]	B213821	10/02/18
18J0087-10 [OU2-SED-99-Sidewall]	B213821	10/02/18
18J0087-11 [OU2-SED-100-Sidewall]	B213821	10/02/18
18J0087-12 [OU2-SED-101-Sidewall]	B213821	10/02/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0087-01 [OU2-SED-29-Bottom]	B213788	10.0	10.0	10/02/18
18J0087-02 [OU2-SED-30-Bottom]	B213788	10.0	10.0	10/02/18
18J0087-03 [OU2-SED-31-Bottom]	B213788	10.0	10.0	10/02/18
18J0087-04 [OU2-SED-32-Bottom]	B213788	10.0	10.0	10/02/18
18J0087-05 [OU2-SED-94-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-06 [OU2-SED-95-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-07 [OU2-SED-96-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-08 [OU2-SED-97-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-09 [OU2-SED-98-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-10 [OU2-SED-99-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-11 [OU2-SED-100-Sidewall]	B213788	10.0	10.0	10/02/18
18J0087-12 [OU2-SED-101-Sidewall]	B213788	10.0	10.0	10/02/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0087-01 [OU2-SED-29-Bottom]	B213886	8.77	10.0	10/03/18
18J0087-02 [OU2-SED-30-Bottom]	B213886	8.70	10.0	10/03/18
18J0087-03 [OU2-SED-31-Bottom]	B213886	8.56	10.0	10/03/18
18J0087-04 [OU2-SED-32-Bottom]	B213886	7.68	10.0	10/03/18
18J0087-05 [OU2-SED-94-Sidewall]	B213886	8.40	10.0	10/03/18
18J0087-06 [OU2-SED-95-Sidewall]	B213886	9.29	10.0	10/03/18
18J0087-07 [OU2-SED-96-Sidewall]	B213886	8.61	10.0	10/03/18
18J0087-08 [OU2-SED-97-Sidewall]	B213886	8.43	10.0	10/03/18
18J0087-09 [OU2-SED-98-Sidewall]	B213886	8.39	10.0	10/03/18
18J0087-10 [OU2-SED-99-Sidewall]	B213886	7.93	10.0	10/03/18
18J0087-11 [OU2-SED-100-Sidewall]	B213886	8.04	10.0	10/03/18
18J0087-12 [OU2-SED-101-Sidewall]	B213886	8.54	10.0	10/03/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0087-01 [OU2-SED-29-Bottom]	B213816	30.0	1.00	10/02/18
18J0087-02 [OU2-SED-30-Bottom]	B213816	30.0	1.00	10/02/18
18J0087-03 [OU2-SED-31-Bottom]	B213816	30.0	1.00	10/02/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0087-04 [OU2-SED-32-Bottom]	B213816	30.0	1.00	10/02/18
18J0087-05 [OU2-SED-94-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-06 [OU2-SED-95-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-07 [OU2-SED-96-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-08 [OU2-SED-97-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-09 [OU2-SED-98-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-10 [OU2-SED-99-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-11 [OU2-SED-100-Sidewall]	B213816	30.0	1.00	10/02/18
18J0087-12 [OU2-SED-101-Sidewall]	B213816	30.0	1.00	10/02/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213886 - SW-846 5035										
Blank (B213886-BLK1)										
Prepared & Analyzed: 10/03/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		97.9	70-130			
LCS (B213886-BS1)										
Prepared & Analyzed: 10/03/18										
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
Ethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
m+p Xylene	0.0379	0.0040	mg/Kg wet	0.0400		94.8	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B213886-BSD1)										
Prepared & Analyzed: 10/03/18										
Benzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	2.72	25	
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	1.05	25	
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.196	25	
Toluene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130	1.35	25	
1,2,4-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	2.46	25	
m+p Xylene	0.0379	0.0040	mg/Kg wet	0.0400		94.7	70-130	0.0528	25	
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	4.61	25	
Surrogate: 1,2-Dichloroethane-d4	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B213816 - SW-846 3546

Blank (B213816-BLK1)

Prepared: 10/02/18 Analyzed: 10/03/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: p-Terphenyl-d14	3.71		mg/Kg wet	3.33		111	30-130			

LCS (B213816-BS1)

Prepared: 10/02/18 Analyzed: 10/03/18

Acenaphthene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Acenaphthylene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Anthracene	1.39	0.17	mg/Kg wet	1.67		83.1	40-140			
Benzo(a)anthracene	1.48	0.17	mg/Kg wet	1.67		89.1	40-140			
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.67		88.9	40-140			
Benzo(b)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140			
Benzo(g,h,i)perylene	1.65	0.17	mg/Kg wet	1.67		99.1	40-140			
Benzo(k)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140			
Chrysene	1.44	0.17	mg/Kg wet	1.67		86.7	40-140			
Dibenz(a,h)anthracene	1.55	0.17	mg/Kg wet	1.67		93.2	40-140			
Fluoranthene	1.43	0.17	mg/Kg wet	1.67		85.9	40-140			
Fluorene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Indeno(1,2,3-cd)pyrene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
2-Methylnaphthalene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140			
Pyrene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
Surrogate: Nitrobenzene-d5	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.73		mg/Kg wet	3.33		81.8	30-130			
Surrogate: p-Terphenyl-d14	3.18		mg/Kg wet	3.33		95.4	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213816 - SW-846 3546										
LCS Dup (B213816-BSD1)										
					Prepared: 10/02/18 Analyzed: 10/03/18					
Acenaphthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	6.31	30	
Acenaphthylene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140	7.32	30	
Anthracene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	4.30	30	
Benzo(a)anthracene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	4.95	30	
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	5.79	30	
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	5.06	30	
Benzo(g,h,i)perylene	1.58	0.17	mg/Kg wet	1.67		95.1	40-140	4.14	30	
Benzo(k)fluoranthene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140	5.48	30	
Chrysene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140	5.45	30	
Dibenz(a,h)anthracene	1.49	0.17	mg/Kg wet	1.67		89.4	40-140	4.12	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	14.1	30	
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	9.28	30	
Indeno(1,2,3-cd)pyrene	1.63	0.17	mg/Kg wet	1.67		97.8	40-140	2.58	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	10.7	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	12.9	30	
Phenanthrene	1.34	0.17	mg/Kg wet	1.67		80.1	40-140	5.79	30	
Pyrene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	3.43	30	
Surrogate: Nitrobenzene-d5	2.15		mg/Kg wet	3.33		64.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.33		77.2	30-130			
Surrogate: p-Terphenyl-d14	3.25		mg/Kg wet	3.33		97.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213788 - SW-846 3546										
Blank (B213788-BLK1)										
Prepared: 10/02/18 Analyzed: 10/03/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg wet	0.200		74.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.183		mg/Kg wet	0.200		91.4	30-150			
LCS (B213788-BS1)										
Prepared: 10/02/18 Analyzed: 10/03/18										
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
4,4'-DDE [2C]	0.087	0.0040	mg/Kg wet	0.100		86.9	40-140			
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.100		90.8	40-140			
4,4'-DDT [2C]	0.086	0.0040	mg/Kg wet	0.100		86.3	40-140			
Endosulfan I	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140			
Endosulfan I [2C]	0.085	0.0050	mg/Kg wet	0.100		85.0	40-140			
Endosulfan II	0.089	0.0080	mg/Kg wet	0.100		89.1	40-140			
Endosulfan II [2C]	0.089	0.0080	mg/Kg wet	0.100		88.6	40-140			
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.122		mg/Kg wet	0.200		60.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.7	30-150			
LCS Dup (B213788-BSD1)										
Prepared: 10/02/18 Analyzed: 10/03/18										
4,4'-DDE	0.092	0.0040	mg/Kg wet	0.100		92.1	40-140	2.69	30	
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140	2.97	30	
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		93.3	40-140	2.70	30	
4,4'-DDT [2C]	0.088	0.0040	mg/Kg wet	0.100		87.9	40-140	1.77	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		87.2	40-140	1.52	30	
Endosulfan I [2C]	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140	2.38	30	
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.3	40-140	1.32	30	
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		90.5	40-140	2.07	30	
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.127		mg/Kg wet	0.200		63.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B213821 - % Solids

Duplicate (B213821-DUP2)

Source: 18J0087-01

Prepared: 10/02/18 Analyzed: 10/03/18

% Solids	83.5		% Wt		81.7			2.14	20	
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BREAKDOWN REPORT

Lab Sample ID: S027958-PEM1 **Analyzed:** 10/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.86
Endrin [1] 2.75

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.59
Endrin [2] 3.05

BREAKDOWN REPORT

Lab Sample ID: S027958-PEM2 **Analyzed:** 10/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.90
Endrin [1] 3.65

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.97
Endrin [2] 3.96

BREAKDOWN REPORT

Lab Sample ID: S027958-PEM3 **Analyzed:** 10/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.80
Endrin [1] 2.99

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BREAKDOWN REPORT

Lab Sample ID: S027958-PEM3 Analyzed: 10/03/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	4.46
Endrin [2]	3.31

BREAKDOWN REPORT

Lab Sample ID: S027958-PEM4 Analyzed: 10/04/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	3.53
Endrin [1]	2.85

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	4.08
Endrin [2]	2.94

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

OU2-SED-29-Bottom

SW-846 8081B

Lab Sample ID: 18J0087-01 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.754	-0.030	0.030	0.0014	
	2	6.479	-0.030	0.030	0.0017	19.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

OU2-SED-30-Bottom

Lab Sample ID: 18J0087-02 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.755	-0.030	0.030	0.0010	
	2	6.479	-0.030	0.030	0.0012	18.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B213788-BS1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.713	-0.030	0.030	0.090	
	2	6.564	-0.030	0.030	0.087	3.4
4,4'-DDT	1	7.359	-0.030	0.030	0.091	
	2	7.212	-0.030	0.030	0.086	5.7
Endosulfan I	1	6.751	-0.030	0.030	0.086	
	2	6.468	-0.030	0.030	0.085	1.2
Endosulfan II	1	7.258	-0.030	0.030	0.089	
	2	7.031	-0.030	0.030	0.089	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B213788-BSD1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.711	-0.030	0.030	0.092	
	2	6.563	-0.030	0.030	0.090	2.2
4,4'-DDT	1	7.357	-0.030	0.030	0.093	
	2	7.211	-0.030	0.030	0.088	5.5
Endosulfan I	1	6.749	-0.030	0.030	0.087	
	2	6.467	-0.030	0.030	0.087	0.0
Endosulfan II	1	7.257	-0.030	0.030	0.090	
	2	7.030	-0.030	0.030	0.090	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD (New York)

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

Requested Turnaround Time
 Rush Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other: _____
 CLP Like Data Plg Required:
 Email To: miw@land-remediation.com
 Fax To #: _____

Company Name: ALB
 Address: 74 Hudson River Road Waterford, NY
 Phone: _____
 Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: OU_2 Sed
 Project Number: _____
 Project Manager: Matthew Warren
 Con-Test Quote Name/Number: _____
 Invoice Recipient: miw@land-remediation.com
 Sampled By: Ethan Brandt

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-29-Bottom	10/1/2018 16:31	10/1/2018 16:55	X	S	L	X
2	OU2-SED-30-Bottom	10/1/2018 17:05	10/1/2018 17:08	X	S	L	X
3	OU2-SED-31-Bottom	10/1/2018 17:21	10/1/2018 17:24	X	S	L	X
4	OU2-SED-32-Bottom	10/1/2018 17:37	10/1/2018 17:40	X	S	L	X
5	OU2-SED-94-Sidewall	10/1/2018 16:57	10/1/2018 17:00	X	S	L	X
6	OU2-SED-95-Sidewall	10/1/2018 16:45	10/1/2018 16:48	X	S	L	X
7	OU2-SED-96-Sidewall	10/1/2018 17:15	10/1/2018 17:18	X	S	L	X
8	OU2-SED-97-Sidewall	10/1/2018 17:08	10/1/2018 17:11	X	S	L	X
9	OU2-SED-98-Sidewall	10/1/2018 17:27	10/1/2018 17:30	X	S	L	X
10	OU2-SED-99-Sidewall	10/1/2018 17:31	10/1/2018 17:33	X	S	L	X

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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)

PCB ONLY
 Soxhlet
 Non Soxhlet

ANALYSIS REQUESTED

8260 Standard*
 8270 PAH
 8081*

Relinquished by: (signature) Ethan Brandt Date/Time: 10/2/18 9:00
 Received by: (signature) Matthew Warren Date/Time: 10-2-18 9:00 AM
 Relinquished by: (signature) Ethan Brandt Date/Time: 10-2-18 1400
 Received by: (signature) Matthew Warren Date/Time: 10-2-18 1400
 Relinquished by: (signature) Ethan Brandt Date/Time: 10-2-18 1800
 Received by: (signature) Matthew Warren Date/Time: 10-2-18 1800
 Relinquished by: (signature) Ethan Brandt Date/Time: 10-2-18 18:00
 Received by: (signature) Matthew Warren Date/Time: 10-2-18 18:00

Program & Regulatory Information
 AWG STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

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

Other:
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other:
 Chromatogram
 AIMA-LAP, LLC

Other:
 Other
 Chromatogram
 AIMA-LAP, LLC

Other:
 Other
 Chromatogram
 AIMA-LAP, LLC



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
 East Longmeadow, MA 01028

Page _____ of _____

Company Name: **ALB**
 Address: 74 Hudson River Road Waterford, NY
 Project Name: **LAND remediation**
 Project Location: **OU_2 Sed**
 Project Number: **8260 Standard***
 Project Manager: **Matthew Warren**
 Con-Test Quote Name/Number: **8081***
 Invoice Recipient: **mjw@land-remediation.com**
 Sampled By: **Ethan Brandt**

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

of Containers
 1 Preservation Code
 2 Container Code
 Dissolved Metals Samples
 Field Filtered
 Lab to Filter
 Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	OU2-SED-100-Sidewall	10/11/2018 17:43	10/11/2018 17:46	X	X	S	L
12	OU2-SED-101-Sidewall	10/11/2018 17:47	10/11/2018 17:50	X	X	S	L

ANALYSIS REQUESTED

8260 Standard*
 8270 PAH

8081*

Comments: *8081: 4-4DDE, 4-4DDT, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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) *Ethan Brandt* Date/Time: 10/2/18 9:00
 Received by: (signature) *Matthew Warren* Date/Time: 10-2-18 9:00 AM
 Relinquished by: (signature) *Ethan Brandt* Date/Time: 10-2-18 14:00
 Received by: (signature) *Matthew Warren* Date/Time: 10-2-18 14:00
 Relinquished by: (signature) *Ethan Brandt* Date/Time: 10-2-18 18:00
 Received by: (signature) *Matthew Warren* Date/Time: 10/2/18 18:00

3.2

Program & Regulatory Information:
 AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables:
 Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hts-Only EDD

Other:
 Chromatogram
 AIHA-LAP, LLC

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

PCB ONLY:
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND

Received By NP Date 10/2/18 Time 18:00

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

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 3.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? T 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

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? _____

Who was notified? Ray

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb /Clear
Meoh-	<u>12</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>24</u>	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:

October 17, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU2_Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0536

Enclosed are results of analyses for samples received by the laboratory on October 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0536

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

PROJECT LOCATION: OU2_Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-35-Bottom	18J0536-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-104-Sidewall	18J0536-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-34-Bottom	18J0536-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-102-Sidewall	18J0536-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-33-Bottom	18J0536-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-105-Sidewall	18J0536-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-103-Sidewall	18J0536-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-106-Sidewall	18J0536-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-107-Sidewall	18J0536-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-108-Sidewall	18J0536-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

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

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0536

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

PROJECT LOCATION: OU2_Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-36-Bottom	18J0536-11	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 10/17/2018: Report revised to correct client sample IDs for 18J0536-05 as per COC, and 18J0536-09 as per sample label. Chain of Custody had sample ID OU2-SED-103-Sidewall for both samples -07 and -09.

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

4,4'-DDE

18J0536-08[OU2-SED-106-Sidewall]

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.



Aaron L. Benoit
Project Manager

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-35-Bottom

Sample ID: 18J0536-01

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:05:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:46	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130						10/11/18 12:46	
Toluene-d8		96.0	70-130						10/11/18 12:46	
4-Bromofluorobenzene		98.6	70-130						10/11/18 12:46	

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-35-Bottom

Sample ID: 18J0536-01

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:05:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:20	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		89.2	30-130						10/12/18 20:20	
2-Fluorobiphenyl		92.6	30-130						10/12/18 20:20	
p-Terphenyl-d14		118	30-130						10/12/18 20:20	

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-35-Bottom

Sample ID: 18J0536-01

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:05:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:25	TG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:25	TG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:25	TG
Endosulfan II [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:25	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.0		30-150						10/13/18 14:25	
Decachlorobiphenyl [2]	81.1		30-150						10/13/18 14:25	
Tetrachloro-m-xylene [1]	82.6		30-150						10/13/18 14:25	
Tetrachloro-m-xylene [2]	79.2		30-150						10/13/18 14:25	

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-35-Bottom

Sample ID: 18J0536-01

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:05:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-104-Sidewall

Sample ID: 18J0536-02

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:53:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
Ethylbenzene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
Toluene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00070	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
m+p Xylene	ND	0.0035	0.0015	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
o-Xylene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
Xylenes (total)	ND	0.0052		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:14	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/11/18 13:14	
Toluene-d8		96.5	70-130						10/11/18 13:14	
4-Bromofluorobenzene		96.2	70-130						10/11/18 13:14	

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

Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-104-Sidewall

Sample ID: 18J0536-02

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:53:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 20:42	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.9	30-130						10/12/18 20:42	
2-Fluorobiphenyl		65.7	30-130						10/12/18 20:42	
p-Terphenyl-d14		87.8	30-130						10/12/18 20:42	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-104-Sidewall

Sample ID: 18J0536-02

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:53:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0052	0.00039	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:52	TG
4,4'-DDT [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:52	TG
Endosulfan I [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:52	TG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 14:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.4		30-150						10/13/18 14:52	
Decachlorobiphenyl [2]	72.4		30-150						10/13/18 14:52	
Tetrachloro-m-xylene [1]	67.0		30-150						10/13/18 14:52	
Tetrachloro-m-xylene [2]	67.0		30-150						10/13/18 14:52	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-104-Sidewall

Sample ID: 18J0536-02

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:53:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.2		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-34-Bottom

Sample ID: 18J0536-03

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:49:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:41	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/11/18 13:41	
Toluene-d8		95.6	70-130						10/11/18 13:41	
4-Bromofluorobenzene		97.3	70-130						10/11/18 13:41	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-34-Bottom

Sample ID: 18J0536-03

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:49:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:29	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		47.9	30-130						10/12/18 11:29	
2-Fluorobiphenyl		50.5	30-130						10/12/18 11:29	
p-Terphenyl-d14		55.6	30-130						10/12/18 11:29	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-34-Bottom

Sample ID: 18J0536-03

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:49:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:19	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:19	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:19	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:19	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.4		30-150						10/13/18 15:19	
Decachlorobiphenyl [2]	70.1		30-150						10/13/18 15:19	
Tetrachloro-m-xylene [1]	69.5		30-150						10/13/18 15:19	
Tetrachloro-m-xylene [2]	67.4		30-150						10/13/18 15:19	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-34-Bottom

Sample ID: 18J0536-03

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:49:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-102-Sidewall

Sample ID: 18J0536-04

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:36:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
Ethylbenzene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
Toluene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
1,2,4-Trimethylbenzene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:09	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/11/18 14:09	
Toluene-d8		95.3	70-130						10/11/18 14:09	
4-Bromofluorobenzene		95.3	70-130						10/11/18 14:09	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-102-Sidewall

Sample ID: 18J0536-04

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:36:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Benzo(a)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Benzo(a)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Benzo(b)fluoranthene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Benzo(g,h,i)perylene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Chrysene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Fluoranthene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Pyrene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:51	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		48.6	30-130						10/12/18 11:51	
2-Fluorobiphenyl		51.0	30-130						10/12/18 11:51	
p-Terphenyl-d14		54.6	30-130						10/12/18 11:51	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-102-Sidewall

Sample ID: 18J0536-04

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:36:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:45	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:45	TG
Endosulfan I [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:45	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 15:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.4		30-150						10/13/18 15:45	
Decachlorobiphenyl [2]	73.0		30-150						10/13/18 15:45	
Tetrachloro-m-xylene [1]	71.8		30-150						10/13/18 15:45	
Tetrachloro-m-xylene [2]	69.2		30-150						10/13/18 15:45	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-102-Sidewall

Sample ID: 18J0536-04

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:36:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.2		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-33-Bottom

Sample ID: 18J0536-05

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 14:36	MF
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		103		70-130					10/11/18 14:36	
Toluene-d8		96.6		70-130					10/11/18 14:36	
4-Bromofluorobenzene		98.5		70-130					10/11/18 14:36	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-33-Bottom

Sample ID: 18J0536-05

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:13	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		52.3	30-130						10/12/18 12:13	
2-Fluorobiphenyl		56.6	30-130						10/12/18 12:13	
p-Terphenyl-d14		62.2	30-130						10/12/18 12:13	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-33-Bottom

Sample ID: 18J0536-05

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:12	TG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:12	TG
Endosulfan I [1]	ND	0.0063	0.00051	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:12	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:12	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.3		30-150						10/13/18 16:12	
Decachlorobiphenyl [2]	77.4		30-150						10/13/18 16:12	
Tetrachloro-m-xylene [1]	79.3		30-150						10/13/18 16:12	
Tetrachloro-m-xylene [2]	77.7		30-150						10/13/18 16:12	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-33-Bottom

Sample ID: 18J0536-05

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-105-Sidewall

Sample ID: 18J0536-06

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:57:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:04	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/11/18 15:04	
Toluene-d8		94.7	70-130						10/11/18 15:04	
4-Bromofluorobenzene		95.5	70-130						10/11/18 15:04	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-105-Sidewall

Sample ID: 18J0536-06

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:57:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:04	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		46.4	30-130						10/12/18 10:04	
2-Fluorobiphenyl		53.2	30-130						10/12/18 10:04	
p-Terphenyl-d14		56.4	30-130						10/12/18 10:04	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-105-Sidewall

Sample ID: 18J0536-06

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:57:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:39	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:39	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:39	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 16:39	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	70.3		30-150						10/13/18 16:39	
Decachlorobiphenyl [2]	66.9		30-150						10/13/18 16:39	
Tetrachloro-m-xylene [1]	60.1		30-150						10/13/18 16:39	
Tetrachloro-m-xylene [2]	58.5		30-150						10/13/18 16:39	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-105-Sidewall

Sample ID: 18J0536-06

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:57:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	10/12/18	10/12/18 9:48	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-103-Sidewall

Sample ID: 18J0536-07

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:43:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:31	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/11/18 15:31	
Toluene-d8		96.5	70-130						10/11/18 15:31	
4-Bromofluorobenzene		96.8	70-130						10/11/18 15:31	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-103-Sidewall

Sample ID: 18J0536-07

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:43:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Benzo(b)fluoranthene	0.064	0.22	0.061	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Benzo(g,h,i)perylene	ND	0.22	0.096	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:29	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		43.0	30-130						10/12/18 10:29	
2-Fluorobiphenyl		48.5	30-130						10/12/18 10:29	
p-Terphenyl-d14		48.9	30-130						10/12/18 10:29	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-103-Sidewall

Sample ID: 18J0536-07

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:43:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 17:05	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 17:05	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 17:05	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 17:05	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	70.7		30-150						10/13/18 17:05	
Decachlorobiphenyl [2]	66.8		30-150						10/13/18 17:05	
Tetrachloro-m-xylene [1]	59.9		30-150						10/13/18 17:05	
Tetrachloro-m-xylene [2]	58.7		30-150						10/13/18 17:05	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-103-Sidewall

Sample ID: 18J0536-07

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 1:43:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	10/12/18	10/12/18 9:50	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-106-Sidewall

Sample ID: 18J0536-08

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
Ethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
Isopropylbenzene (Cumene)	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
Toluene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
1,2,4-Trimethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
o-Xylene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
Xylenes (total)	ND	0.0062		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 15:59	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130						10/11/18 15:59	
Toluene-d8		95.6	70-130						10/11/18 15:59	
4-Bromofluorobenzene		99.4	70-130						10/11/18 15:59	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-106-Sidewall

Sample ID: 18J0536-08

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.30	0.089	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Acenaphthylene	ND	0.30	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Anthracene	ND	0.30	0.086	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Benzo(a)anthracene	ND	0.30	0.079	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Benzo(a)pyrene	ND	0.30	0.093	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Benzo(b)fluoranthene	0.098	0.30	0.084	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Benzo(g,h,i)perylene	ND	0.30	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Benzo(k)fluoranthene	ND	0.30	0.093	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Chrysene	ND	0.30	0.093	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Dibenz(a,h)anthracene	ND	0.30	0.18	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Fluoranthene	ND	0.30	0.098	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Fluorene	ND	0.30	0.096	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Indeno(1,2,3-cd)pyrene	ND	0.30	0.21	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
2-Methylnaphthalene	ND	0.30	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Naphthalene	ND	0.30	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Phenanthrene	ND	0.30	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Pyrene	ND	0.30	0.098	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 10:54	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		44.1	30-130						10/12/18 10:54	
2-Fluorobiphenyl		49.5	30-130						10/12/18 10:54	
p-Terphenyl-d14		48.7	30-130						10/12/18 10:54	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-106-Sidewall

Sample ID: 18J0536-08

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	0.00055	0.0071	0.00053	mg/Kg dry	1	P-02, J	SW-846 8081B	10/11/18	10/15/18 11:48	TG
4,4'-DDT [1]	ND	0.0071	0.00071	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 11:48	TG
Endosulfan I [1]	ND	0.0088	0.00071	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 11:48	TG
Endosulfan II [1]	ND	0.014	0.00053	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 11:48	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.1		30-150						10/15/18 11:48	
Decachlorobiphenyl [2]	75.5		30-150						10/15/18 11:48	
Tetrachloro-m-xylene [1]	74.2		30-150						10/15/18 11:48	
Tetrachloro-m-xylene [2]	74.6		30-150						10/15/18 11:48	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-106-Sidewall

Sample ID: 18J0536-08

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:10:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.2		% Wt	1		SM 2540G	10/12/18	10/12/18 9:50	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-107-Sidewall

Sample ID: 18J0536-09

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
1,2,4-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 12:54	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130						10/11/18 12:54	
Toluene-d8		104	70-130						10/11/18 12:54	
4-Bromofluorobenzene		97.0	70-130						10/11/18 12:54	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-107-Sidewall

Sample ID: 18J0536-09

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.30	0.23	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Acenaphthylene	ND	0.23	0.078	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Anthracene	ND	0.23	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Benzo(a)anthracene	ND	0.23	0.062	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Benzo(a)pyrene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Benzo(b)fluoranthene	ND	0.23	0.066	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Benzo(k)fluoranthene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Chrysene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Fluoranthene	ND	0.23	0.077	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Fluorene	0.12	0.23	0.075	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Indeno(1,2,3-cd)pyrene	ND	0.23	0.17	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
2-Methylnaphthalene	ND	0.23	0.081	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Pyrene	ND	0.23	0.077	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:19	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	53.2		30-130				10/12/18 11:19			
2-Fluorobiphenyl	58.7		30-130				10/12/18 11:19			
p-Terphenyl-d14	54.1		30-130				10/12/18 11:19			

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-107-Sidewall

Sample ID: 18J0536-09

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0053	0.00040	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:15	TG
4,4'-DDT [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:15	TG
Endosulfan I [1]	ND	0.0066	0.00053	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:15	TG
Endosulfan II [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:15	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.0		30-150						10/15/18 12:15	
Decachlorobiphenyl [2]	77.5		30-150						10/15/18 12:15	
Tetrachloro-m-xylene [1]	80.9		30-150						10/15/18 12:15	
Tetrachloro-m-xylene [2]	80.0		30-150						10/15/18 12:15	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-107-Sidewall

Sample ID: 18J0536-09

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:20:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	10/12/18	10/12/18 9:50	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-108-Sidewall

Sample ID: 18J0536-10

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:25:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
o-Xylene	ND	0.0014	0.00051	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:19	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		110	70-130						10/11/18 13:19	
Toluene-d8		104	70-130						10/11/18 13:19	
4-Bromofluorobenzene		102	70-130						10/11/18 13:19	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-108-Sidewall

Sample ID: 18J0536-10

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:25:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Benzo(a)anthracene	0.069	0.21	0.057	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Benzo(a)pyrene	0.080	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Benzo(b)fluoranthene	0.11	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Benzo(g,h,i)perylene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Chrysene	0.067	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Fluoranthene	0.13	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Phenanthrene	0.12	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Pyrene	0.13	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	10/11/18	10/12/18 11:44	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	51.8		30-130				10/12/18 11:44			
2-Fluorobiphenyl	60.6		30-130				10/12/18 11:44			
p-Terphenyl-d14	59.9		30-130				10/12/18 11:44			

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-108-Sidewall

Sample ID: 18J0536-10

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:25:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:42	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:42	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:42	TG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	10/11/18	10/15/18 12:42	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	69.9		30-150						10/15/18 12:42	
Decachlorobiphenyl [2]	72.1		30-150						10/15/18 12:42	
Tetrachloro-m-xylene [1]	63.9		30-150						10/15/18 12:42	
Tetrachloro-m-xylene [2]	62.8		30-150						10/15/18 12:42	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-108-Sidewall

Sample ID: 18J0536-10

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:25:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	10/12/18	10/12/18 9:51	MJR

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-36-Bottom

Sample ID: 18J0536-11

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:16:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
m+p Xylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	10/11/18	10/11/18 13:43	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		111	70-130						10/11/18 13:43	
Toluene-d8		101	70-130						10/11/18 13:43	
4-Bromofluorobenzene		101	70-130						10/11/18 13:43	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-36-Bottom

Sample ID: 18J0536-11

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:16:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/11/18	10/12/18 12:10	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.9	30-130						10/12/18 12:10	
2-Fluorobiphenyl		62.3	30-130						10/12/18 12:10	
p-Terphenyl-d14		61.7	30-130						10/12/18 12:10	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-36-Bottom

Sample ID: 18J0536-11

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:16:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 18:52	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 18:52	TG
Endosulfan I [1]	ND	0.0062	0.00049	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 18:52	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	10/11/18	10/13/18 18:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.6		30-150						10/13/18 18:52	
Decachlorobiphenyl [2]	71.9		30-150						10/13/18 18:52	
Tetrachloro-m-xylene [1]	66.3		30-150						10/13/18 18:52	
Tetrachloro-m-xylene [2]	65.0		30-150						10/13/18 18:52	

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Project Location: OU2_Sed

Sample Description:

Work Order: 18J0536

Date Received: 10/11/2018

Field Sample #: OU2-SED-36-Bottom

Sample ID: 18J0536-11

Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 10/10/2018 2:16:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	10/12/18	10/12/18 9:51	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J0536-01 [OU2-SED-35-Bottom]	B214605	10/12/18
18J0536-02 [OU2-SED-104-Sidewall]	B214605	10/12/18
18J0536-03 [OU2-SED-34-Bottom]	B214605	10/12/18
18J0536-04 [OU2-SED-102-Sidewall]	B214605	10/12/18
18J0536-05 [OU2-SED-33-Bottom]	B214605	10/12/18
18J0536-06 [OU2-SED-105-Sidewall]	B214605	10/12/18
18J0536-07 [OU2-SED-103-Sidewall]	B214605	10/12/18
18J0536-08 [OU2-SED-106-Sidewall]	B214605	10/12/18
18J0536-09 [OU2-SED-107-Sidewall]	B214605	10/12/18
18J0536-10 [OU2-SED-108-Sidewall]	B214605	10/12/18
18J0536-11 [OU2-SED-36-Bottom]	B214605	10/12/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0536-01 [OU2-SED-35-Bottom]	B214567	10.9	10.0	10/11/18
18J0536-02 [OU2-SED-104-Sidewall]	B214567	10.0	10.0	10/11/18
18J0536-03 [OU2-SED-34-Bottom]	B214567	10.1	10.0	10/11/18
18J0536-04 [OU2-SED-102-Sidewall]	B214567	10.3	10.0	10/11/18
18J0536-05 [OU2-SED-33-Bottom]	B214567	10.1	10.0	10/11/18
18J0536-06 [OU2-SED-105-Sidewall]	B214567	10.3	10.0	10/11/18
18J0536-07 [OU2-SED-103-Sidewall]	B214567	10.6	10.0	10/11/18
18J0536-08 [OU2-SED-106-Sidewall]	B214567	10.1	10.0	10/11/18
18J0536-09 [OU2-SED-107-Sidewall]	B214567	10.5	10.0	10/11/18
18J0536-10 [OU2-SED-108-Sidewall]	B214567	10.3	10.0	10/11/18
18J0536-11 [OU2-SED-36-Bottom]	B214567	10.0	10.0	10/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0536-01 [OU2-SED-35-Bottom]	B214561	8.34	10.0	10/11/18
18J0536-02 [OU2-SED-104-Sidewall]	B214561	7.40	10.0	10/11/18
18J0536-03 [OU2-SED-34-Bottom]	B214561	8.35	10.0	10/11/18
18J0536-04 [OU2-SED-102-Sidewall]	B214561	7.03	10.0	10/11/18
18J0536-05 [OU2-SED-33-Bottom]	B214561	8.40	10.0	10/11/18
18J0536-06 [OU2-SED-105-Sidewall]	B214561	8.07	10.0	10/11/18
18J0536-07 [OU2-SED-103-Sidewall]	B214561	8.38	10.0	10/11/18
18J0536-08 [OU2-SED-106-Sidewall]	B214561	8.56	10.0	10/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0536-09 [OU2-SED-107-Sidewall]	B214564	7.17	10.0	10/11/18
18J0536-10 [OU2-SED-108-Sidewall]	B214564	8.76	10.0	10/11/18
18J0536-11 [OU2-SED-36-Bottom]	B214564	7.80	10.0	10/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0536-01 [OU2-SED-35-Bottom]	B214569	30.2	1.00	10/11/18

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Sample Extraction Data**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0536-02 [OU2-SED-104-Sidewall]	B214569	30.6	1.00	10/11/18
18J0536-03 [OU2-SED-34-Bottom]	B214569	30.6	1.00	10/11/18
18J0536-04 [OU2-SED-102-Sidewall]	B214569	30.8	1.00	10/11/18
18J0536-05 [OU2-SED-33-Bottom]	B214569	30.2	1.00	10/11/18
18J0536-06 [OU2-SED-105-Sidewall]	B214569	30.1	1.00	10/11/18
18J0536-07 [OU2-SED-103-Sidewall]	B214569	30.2	1.00	10/11/18
18J0536-08 [OU2-SED-106-Sidewall]	B214569	30.6	1.00	10/11/18
18J0536-09 [OU2-SED-107-Sidewall]	B214569	30.3	1.00	10/11/18
18J0536-10 [OU2-SED-108-Sidewall]	B214569	30.1	1.00	10/11/18
18J0536-11 [OU2-SED-36-Bottom]	B214569	30.0	1.00	10/11/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214561 - SW-846 5035										
Blank (B214561-BLK1)										
Prepared & Analyzed: 10/11/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0485		mg/Kg wet	0.0500		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.0	70-130			
LCS (B214561-BS1)										
Prepared & Analyzed: 10/11/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.2	70-130			
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0481		mg/Kg wet	0.0500		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			
LCS Dup (B214561-BSD1)										
Prepared & Analyzed: 10/11/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130	0.00	25	
Ethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130	2.40	25	
Isopropylbenzene (Cumene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.93	25	
Toluene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130	1.99	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	0.626	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.8	70-130	0.464	25	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	0.00	25	
Surrogate: 1,2-Dichloroethane-d4	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Batch B214564 - SW-846 5035										
Blank (B214564-BLK1)										
Prepared & Analyzed: 10/11/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0540		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0515		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0531		mg/Kg wet	0.0500		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214564 - SW-846 5035										
LCS (B214564-BS1)										
Prepared & Analyzed: 10/11/18										
Benzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		97.9	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0548		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B214564-BSD1)										
Prepared & Analyzed: 10/11/18										
Benzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.21	25	
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	0.532	25	
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	0.0957	25	
Toluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	0.801	25	
1,2,4-Trimethylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	4.16	25	
m+p Xylene	0.0395	0.0040	mg/Kg wet	0.0400		98.8	70-130	0.936	25	
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	0.888	25	
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0523		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214569 - SW-846 3546										
Blank (B214569-BLK1)										
Prepared: 10/11/18 Analyzed: 10/12/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.56		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	1.70		mg/Kg wet	3.33		51.1	30-130			
Surrogate: p-Terphenyl-d14	1.86		mg/Kg wet	3.33		55.8	30-130			
LCS (B214569-BS1)										
Prepared: 10/11/18 Analyzed: 10/12/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Acenaphthylene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Anthracene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140			
Benzo(a)anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140			
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140			
Benzo(k)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Chrysene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140			
Fluoranthene	1.38	0.17	mg/Kg wet	1.67		83.0	40-140			
Fluorene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.5	40-140			
Pyrene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140			
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.82		mg/Kg wet	3.33		84.7	30-130			
Surrogate: p-Terphenyl-d14	3.84		mg/Kg wet	3.33		115	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 B214569 - SW-846 3546										
LCS Dup (B214569-BSD1)										
					Prepared: 10/11/18 Analyzed: 10/12/18					
Acenaphthene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	1.93	30	
Acenaphthylene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140	1.43	30	
Anthracene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	0.767	30	
Benzo(a)anthracene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140	1.89	30	
Benzo(a)pyrene	1.39	0.17	mg/Kg wet	1.67		83.6	40-140	0.311	30	
Benzo(b)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	0.337	30	
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	10.1	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	0.708	30	
Chrysene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	1.62	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	5.72	30	
Fluoranthene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140	2.24	30	
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	1.46	30	
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	5.10	30	
2-Methylnaphthalene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	5.62	30	
Naphthalene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	10.5	30	
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	1.62	30	
Pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140	5.24	30	
Surrogate: Nitrobenzene-d5	2.67		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.96		mg/Kg wet	3.33		88.7	30-130			
Surrogate: p-Terphenyl-d14	3.60		mg/Kg wet	3.33		108	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214567 - SW-846 3546										
Blank (B214567-BLK1)										
Prepared: 10/11/18 Analyzed: 10/13/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.149		mg/Kg wet	0.200		74.7	30-150			
LCS (B214567-BS1)										
Prepared: 10/11/18 Analyzed: 10/13/18										
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140			
4,4'-DDE [2C]	0.083	0.0040	mg/Kg wet	0.100		83.2	40-140			
4,4'-DDT	0.089	0.0040	mg/Kg wet	0.100		89.4	40-140			
4,4'-DDT [2C]	0.080	0.0040	mg/Kg wet	0.100		80.2	40-140			
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		78.2	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140			
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		79.5	40-140			
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.149		mg/Kg wet	0.200		74.3	30-150			
LCS Dup (B214567-BSD1)										
Prepared: 10/11/18 Analyzed: 10/13/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.4	40-140	3.22	30	
4,4'-DDE [2C]	0.080	0.0040	mg/Kg wet	0.100		79.7	40-140	4.21	30	
4,4'-DDT	0.079	0.0040	mg/Kg wet	0.100		78.6	40-140	12.8	30	
4,4'-DDT [2C]	0.071	0.0040	mg/Kg wet	0.100		70.7	40-140	12.6	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	8.88	30	
Endosulfan I [2C]	0.071	0.0050	mg/Kg wet	0.100		70.9	40-140	9.76	30	
Endosulfan II	0.076	0.0080	mg/Kg wet	0.100		76.3	40-140	8.61	30	
Endosulfan II [2C]	0.073	0.0080	mg/Kg wet	0.100		72.8	40-140	8.83	30	
Surrogate: Decachlorobiphenyl	0.153		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.144		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.200		65.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.129		mg/Kg wet	0.200		64.3	30-150			
Matrix Spike (B214567-MS1)										
Source: 18J0536-03 Prepared: 10/11/18 Analyzed: 10/13/18										
4,4'-DDE	0.12	0.0048	mg/Kg dry	0.120	ND	101	30-150			
4,4'-DDE [2C]	0.11	0.0048	mg/Kg dry	0.120	ND	92.4	30-150			
4,4'-DDT	0.096	0.0048	mg/Kg dry	0.120	ND	80.1	30-150			
4,4'-DDT [2C]	0.084	0.0048	mg/Kg dry	0.120	ND	70.3	30-150			
Endosulfan I	0.10	0.0060	mg/Kg dry	0.120	ND	83.5	30-150			
Endosulfan I [2C]	0.094	0.0060	mg/Kg dry	0.120	ND	78.5	30-150			
Endosulfan II	0.099	0.0096	mg/Kg dry	0.120	ND	82.4	30-150			
Endosulfan II [2C]	0.094	0.0096	mg/Kg dry	0.120	ND	78.1	30-150			
Surrogate: Decachlorobiphenyl	0.207		mg/Kg dry	0.240		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg dry	0.240		82.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214567 - SW-846 3546										
Matrix Spike (B214567-MS1)		Source: 18J0536-03			Prepared: 10/11/18 Analyzed: 10/13/18					
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg dry	0.240		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg dry	0.240		77.1	30-150			
Matrix Spike Dup (B214567-MSD1)		Source: 18J0536-03			Prepared: 10/11/18 Analyzed: 10/13/18					
4,4'-DDE	0.10	0.0048	mg/Kg dry	0.120	ND	83.1	30-150	19.2	30	
4,4'-DDE [2C]	0.098	0.0048	mg/Kg dry	0.120	ND	82.0	30-150	12.0	30	
4,4'-DDT	0.092	0.0048	mg/Kg dry	0.120	ND	76.5	30-150	4.63	30	
4,4'-DDT [2C]	0.080	0.0048	mg/Kg dry	0.120	ND	66.7	30-150	5.27	30	
Endosulfan I	0.090	0.0060	mg/Kg dry	0.120	ND	75.2	30-150	10.5	30	
Endosulfan I [2C]	0.084	0.0060	mg/Kg dry	0.120	ND	70.0	30-150	11.5	30	
Endosulfan II	0.089	0.0096	mg/Kg dry	0.120	ND	74.1	30-150	10.6	30	
Endosulfan II [2C]	0.083	0.0096	mg/Kg dry	0.120	ND	68.8	30-150	12.6	30	
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.240		80.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.184		mg/Kg dry	0.240		76.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg dry	0.240		67.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg dry	0.240		65.8	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214605 - % Solids

Duplicate (B214605-DUP2)

Source: 18J0536-01

Prepared & Analyzed: 10/12/18

% Solids	84.2		% Wt		83.5			0.891	20	
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BREAKDOWN REPORT

Lab Sample ID: S028311-PEM1 **Analyzed:** 10/12/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.47
Endrin [1] 2.11

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.65
Endrin [2] 0.34

BREAKDOWN REPORT

Lab Sample ID: S028311-PEM2 **Analyzed:** 10/13/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.66
Endrin [1] 2.68

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.06
Endrin [2] 0.24

BREAKDOWN REPORT

Lab Sample ID: S028311-PEM3 **Analyzed:** 10/13/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.32
Endrin [1] 2.89

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BREAKDOWN REPORT

Lab Sample ID: S028311-PEM3 Analyzed: 10/13/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	4.09
Endrin [2]	0.49

BREAKDOWN REPORT

Lab Sample ID: S028320-PEM1 Analyzed: 10/15/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	2.76
Endrin [1]	4.53

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	3.56
Endrin [2]	1.71

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

OU2-SED-106-Sidewall

SW-846 8081B

Lab Sample ID: 18J0536-08 Date(s) Analyzed 10/15/2018 10/15/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.505	6.483	6.543	0.00055	
	2	6.364	6.333	6.393	0.00094	52.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B214567-BS1 Date(s) Analyzed 10/13/2018 10/13/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.518	6.488	6.548	0.089	
	2	6.364	6.335	6.395	0.083	7.0
4,4'-DDT	1	7.150	7.120	7.180	0.089	
	2	6.996	6.967	7.027	0.080	10.7
Endosulfan I	1	6.548	6.518	6.578	0.082	
	2	6.266	6.236	6.296	0.078	5.0
Endosulfan II	1	7.044	7.015	7.075	0.083	
	2	6.812	6.783	6.843	0.080	3.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B214567-BSD1 Date(s) Analyzed 10/13/2018 10/13/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.517	6.488	6.548	0.086	
	2	6.365	6.335	6.395	0.080	7.2
4,4'-DDT	1	7.149	7.120	7.180	0.079	
	2	6.996	6.967	7.027	0.071	10.7
Endosulfan I	1	6.547	6.518	6.578	0.075	
	2	6.265	6.236	6.296	0.071	5.5
Endosulfan II	1	7.044	7.015	7.075	0.076	
	2	6.813	6.783	6.843	0.073	4.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike

Lab Sample ID: B214567-MS1 Date(s) Analyzed 10/13/2018 10/13/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.514	6.485	6.545	0.12	
	2	6.364	6.333	6.393	0.11	8.7
4,4'-DDT	1	7.146	7.116	7.176	0.096	
	2	6.994	6.965	7.025	0.084	13.3
Endosulfan I	1	6.545	6.515	6.575	0.10	
	2	6.265	6.234	6.294	0.094	6.2
Endosulfan II	1	7.040	7.010	7.070	0.099	
	2	6.811	6.781	6.841	0.094	5.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B214567-MSD1 Date(s) Analyzed 10/13/2018 10/13/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.515	6.485	6.545	0.10	
	2	6.364	6.333	6.393	0.098	2.0
4,4'-DDT	1	7.146	7.116	7.176	0.092	
	2	6.994	6.965	7.025	0.080	14.0
Endosulfan I	1	6.544	6.515	6.575	0.090	
	2	6.264	6.234	6.294	0.084	6.9
Endosulfan II	1	7.040	7.010	7.070	0.089	
	2	6.811	6.781	6.841	0.083	7.0

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: LAND Remediation
 Address: 74 Hudson River Road Waterford, NY
 Phone: NYSDEC Saranac Lake Gas Co.
 Project Location: OU_2 Sed
 Project Number: Matthew Warren
 Project Manager: miw@land-remediation.com
 Con-Test Quote Name/Number: Ethan Bratt
 Invoice Recipient: miw@land-remediation.com
 Sampled By:

Con-Test Work Order#	Citent Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-35-Bottom	10/10/2018 0:00	10/10/2018 2:00PM		X	S	L
2	OU2-SED-104-Sidewall	10/10/2018 0:00	10/10/2018 13:53		X	S	L
3	OU2-SED-34-Bottom	10/10/2018 0:00	10/10/2018 1:49pm		X	S	L
4	OU2-SED-102-Sidewall	10/10/2018 0:00	10/10/2018 1:36pm		X	S	L
5	OU2-SED-33-Bottom	10/10/2018 0:00	10/10/2018 1:30pm		X	S	L
6	OU2-SED-105-Sidewall	10/10/2018 0:00	10/10/2018 1:37pm		X	S	L
7	OU2-SED-103-sidewall	10/10/2018 0:00	10/10/2018 1:49pm		X	S	L
8	OU2-SED-106-Sidewall	10/10/2018 0:00	10/10/2018 2:10pm		X	S	L
9	OU2-SED-103-Sidewall	10/10/2018 0:00	10/10/2018 2:20pm		X	S	L
10	OU2-SED-108-Sidewall	10/10/2018 0:00	10/10/2018 2:25pm		X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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: 10-10-18 2:37pm
 Received by: (signature) Date/Time: 10/11/18 9:04
 Relinquished by: (signature) Date/Time:
 Date/Time:
 Date/Time:
 Date/Time:

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

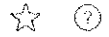
Other: PCB ONLY
 Soxhlet
 Non Soxhlet



Sign In

TRACK ANOTHER SHIPMENT

813219356441



Delivered
Thursday 10/11/2018 at 9:04 am



DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US

Travel History

Multiple-piece Shipment

Shipment Facts

10/11/2018 - Thursday

9:04 am

Delivered
MA

Expand History

10/10/2018 - Wednesday

4:18 pm

Picked up
PLATTSBURGH, NY

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Change Country

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ASK FEDEX

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client LAND Remediation

Received By RAP Date 10/11/18 Time 9:04

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 # 557 Actual Temp - 4.3
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? MA Were Samples Tampered with? MA
 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? Jeanna + Devin
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F

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

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>11</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>22</u>	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 a sample labelled OU2-SED-107-Sidewall that was not on the COC, however the time sampled matched sample #9.

October 18, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0816

Enclosed are results of analyses for samples received by the laboratory on October 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/18/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0816

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-39-Bottom	18J0816-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-113-Sidewall	18J0816-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-114-Sidewall	18J0816-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8260C

Qualifications:**V-20**

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

Analyte & Samples(s) Qualified:**Methylene Chloride**

S028429-CCV1

V-34

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

Analyte & Samples(s) Qualified:**Bromomethane**

S028429-CCV1

V-36

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

Analyte & Samples(s) Qualified:**1,4-Dioxane**

S028429-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-39-Bottom

Sampled: 10/15/2018 18:05

Sample ID: 18J0816-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
1,2,4-Trimethylbenzene	0.00073	0.0013	0.00053	mg/Kg dry	1	J	SW-846 8260C	10/16/18	10/17/18 12:00	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:00	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/17/18 12:00	
Toluene-d8		96.0	70-130						10/17/18 12:00	
4-Bromofluorobenzene		97.6	70-130						10/17/18 12:00	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-39-Bottom

Sampled: 10/15/2018 18:05

Sample ID: 18J0816-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.48	0.21	0.063	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Acenaphthylene	0.080	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Anthracene	0.61	0.21	0.061	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Benzo(a)anthracene	0.40	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Benzo(a)pyrene	0.42	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Benzo(b)fluoranthene	0.29	0.21	0.059	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Benzo(g,h,i)perylene	0.21	0.21	0.093	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Benzo(k)fluoranthene	0.091	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Chrysene	0.36	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Fluoranthene	0.82	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Fluorene	0.34	0.21	0.068	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Indeno(1,2,3-cd)pyrene	0.18	0.21	0.15	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:17	CDT
2-Methylnaphthalene	0.52	0.21	0.073	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Naphthalene	0.22	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Phenanthrene	1.8	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Pyrene	1.3	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:17	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	72.8		30-130				10/17/18 18:17			
2-Fluorobiphenyl	75.5		30-130				10/17/18 18:17			
p-Terphenyl-d14	76.9		30-130				10/17/18 18:17			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-39-Bottom

Sampled: 10/15/2018 18:05

Sample ID: 18J0816-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:13	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:13	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:13	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:13	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.6		30-150						10/18/18 9:13	
Decachlorobiphenyl [2]	77.5		30-150						10/18/18 9:13	
Tetrachloro-m-xylene [1]	78.9		30-150						10/18/18 9:13	
Tetrachloro-m-xylene [2]	70.3		30-150						10/18/18 9:13	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-39-Bottom

Sampled: 10/15/2018 18:05

Sample ID: 18J0816-01

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	80.0		% Wt	1		SM 2540G	10/17/18	10/17/18 23:02	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-113-Sidewall

Sampled: 10/15/2018 18:10

Sample ID: 18J0816-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
1,2,4-Trimethylbenzene	0.0012	0.0014	0.00054	mg/Kg dry	1	J	SW-846 8260C	10/16/18	10/17/18 12:27	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
o-Xylene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:27	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				10/17/18 12:27			
Toluene-d8	95.9		70-130				10/17/18 12:27			
4-Bromofluorobenzene	98.9		70-130				10/17/18 12:27			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-113-Sidewall

Sampled: 10/15/2018 18:10

Sample ID: 18J0816-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.11	0.21	0.064	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Anthracene	0.10	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Fluoranthene	0.079	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Phenanthrene	0.39	0.21	0.11	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Pyrene	0.14	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 18:42	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	72.5		30-130				10/17/18 18:42			
2-Fluorobiphenyl	73.4		30-130				10/17/18 18:42			
p-Terphenyl-d14	78.2		30-130				10/17/18 18:42			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-113-Sidewall

Sampled: 10/15/2018 18:10

Sample ID: 18J0816-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:40	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:40	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:40	TG
Endosulfan II [1]	ND	0.0095	0.00035	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 9:40	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.1		30-150						10/18/18 9:40	
Decachlorobiphenyl [2]	89.9		30-150						10/18/18 9:40	
Tetrachloro-m-xylene [1]	87.0		30-150						10/18/18 9:40	
Tetrachloro-m-xylene [2]	81.0		30-150						10/18/18 9:40	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-113-Sidewall

Sampled: 10/15/2018 18:10

Sample ID: 18J0816-02

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	79.7		% Wt	1		SM 2540G	10/17/18	10/17/18 23:03	MAT

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-114-Sidewall

Sampled: 10/15/2018 18:15

Sample ID: 18J0816-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	10/16/18	10/17/18 12:56	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/17/18 12:56	
Toluene-d8		97.7	70-130						10/17/18 12:56	
4-Bromofluorobenzene		97.3	70-130						10/17/18 12:56	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-114-Sidewall

Sampled: 10/15/2018 18:15

Sample ID: 18J0816-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Anthracene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Benzo(g,h,i)perylene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Fluoranthene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Fluorene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Naphthalene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Phenanthrene	0.15	0.19	0.10	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Pyrene	0.077	0.19	0.064	mg/Kg dry	1	J	SW-846 8270D	10/17/18	10/17/18 19:07	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		78.9	30-130						10/17/18 19:07	
2-Fluorobiphenyl		79.7	30-130						10/17/18 19:07	
p-Terphenyl-d14		77.7	30-130						10/17/18 19:07	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-114-Sidewall

Sampled: 10/15/2018 18:15

Sample ID: 18J0816-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 10:07	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 10:07	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 10:07	TG
Endosulfan II [1]	ND	0.0089	0.00034	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 10:07	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.7		30-150						10/18/18 10:07	
Decachlorobiphenyl [2]	78.8		30-150						10/18/18 10:07	
Tetrachloro-m-xylene [1]	76.8		30-150						10/18/18 10:07	
Tetrachloro-m-xylene [2]	75.9		30-150						10/18/18 10:07	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J0816

Date Received: 10/17/2018

Field Sample #: OU2-SED-114-Sidewall

Sampled: 10/15/2018 18:15

Sample ID: 18J0816-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	10/17/18	10/17/18 23:03	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J0816-01 [OU2-SED-39-Bottom]	B215063	10/17/18
18J0816-02 [OU2-SED-113-Sidewall]	B215063	10/17/18
18J0816-03 [OU2-SED-114-Sidewall]	B215063	10/17/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0816-01 [OU2-SED-39-Bottom]	B215027	10.5	10.0	10/17/18
18J0816-02 [OU2-SED-113-Sidewall]	B215027	10.6	10.0	10/17/18
18J0816-03 [OU2-SED-114-Sidewall]	B215027	10.4	10.0	10/17/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0816-01 [OU2-SED-39-Bottom]	B214974	9.39	10.0	10/16/18
18J0816-02 [OU2-SED-113-Sidewall]	B214974	9.26	10.0	10/16/18
18J0816-03 [OU2-SED-114-Sidewall]	B214974	7.95	10.0	10/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0816-01 [OU2-SED-39-Bottom]	B215026	30.3	1.00	10/17/18
18J0816-02 [OU2-SED-113-Sidewall]	B215026	30.0	1.00	10/17/18
18J0816-03 [OU2-SED-114-Sidewall]	B215026	30.6	1.00	10/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214974 - SW-846 5035										
Blank (B214974-BLK1)										
Prepared & Analyzed: 10/17/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0473		mg/Kg wet	0.0500		94.5	70-130			
LCS (B214974-BS1)										
Prepared & Analyzed: 10/17/18										
Benzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Isopropylbenzene (Cumene)	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
Toluene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.1	70-130			
o-Xylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			
LCS Dup (B214974-BSD1)										
Prepared & Analyzed: 10/17/18										
Benzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	4.18	25	
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	4.47	25	
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	7.05	25	
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	6.17	25	
1,2,4-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	5.82	25	
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.3	70-130	5.49	25	
o-Xylene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	7.61	25	
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		98.9	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215026 - SW-846 3546										
Blank (B215026-BLK1)										
Prepared & Analyzed: 10/17/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.55		mg/Kg wet	3.33		76.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.55		mg/Kg wet	3.33		76.5	30-130			
Surrogate: p-Terphenyl-d14	2.75		mg/Kg wet	3.33		82.6	30-130			
LCS (B215026-BS1)										
Prepared & Analyzed: 10/17/18										
Acenaphthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Acenaphthylene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Anthracene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140			
Benzo(a)pyrene	1.37	0.17	mg/Kg wet	1.67		81.9	40-140			
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140			
Fluorene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140			
2-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Phenanthrene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Surrogate: Nitrobenzene-d5	2.73		mg/Kg wet	3.33		82.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.75		mg/Kg wet	3.33		82.5	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/Kg wet	3.33		89.2	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 B215026 - SW-846 3546										
LCS Dup (B215026-BSD1)										
Prepared & Analyzed: 10/17/18										
Acenaphthene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	3.92	30	
Acenaphthylene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	1.87	30	
Anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	0.228	30	
Benzo(a)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	0.967	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140	1.90	30	
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	1.48	30	
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140	0.125	30	
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	0.669	30	
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	0.838	30	
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	3.74	30	
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	0.331	30	
Fluorene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	1.79	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140	0.0507	30	
2-Methylnaphthalene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140	1.46	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	0.957	30	
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140	1.01	30	
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	2.32	30	
Surrogate: Nitrobenzene-d5	2.70		mg/Kg wet	3.33		80.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.88		mg/Kg wet	3.33		86.5	30-130			
Surrogate: p-Terphenyl-d14	2.88		mg/Kg wet	3.33		86.3	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215027 - SW-846 3546										
Blank (B215027-BLK1)										
Prepared: 10/17/18 Analyzed: 10/18/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.0	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		76.3	30-150			
LCS (B215027-BS1)										
Prepared: 10/17/18 Analyzed: 10/18/18										
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.6	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		88.1	40-140			
4,4'-DDT [2C]	0.082	0.0040	mg/Kg wet	0.100		81.9	40-140			
Endosulfan I	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
Endosulfan I [2C]	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140			
Endosulfan II	0.085	0.0080	mg/Kg wet	0.100		84.6	40-140			
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		84.6	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
LCS Dup (B215027-BSD1)										
Prepared: 10/17/18 Analyzed: 10/18/18										
4,4'-DDE	0.096	0.0040	mg/Kg wet	0.100		95.8	40-140	6.96	30	
4,4'-DDE [2C]	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140	7.07	30	
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.100		91.0	40-140	3.19	30	
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140	3.73	30	
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	3.96	30	
Endosulfan I [2C]	0.087	0.0050	mg/Kg wet	0.100		87.2	40-140	3.94	30	
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		88.1	40-140	4.07	30	
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		88.1	40-140	4.01	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215063 - % Solids

Duplicate (B215063-DUP1)

Source: 18J0816-01

Prepared & Analyzed: 10/17/18

% Solids	79.7		% Wt		80.0			0.294	20	
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BREAKDOWN REPORT

Lab Sample ID: S028418-PEM1 **Analyzed:** 10/16/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.00
Endrin [1] 3.51

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.86
Endrin [2] 3.12

BREAKDOWN REPORT

Lab Sample ID: S028418-PEM2 **Analyzed:** 10/16/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.14
Endrin [1] 2.64

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.01
Endrin [2] 2.24

BREAKDOWN REPORT

Lab Sample ID: S028418-PEM3 **Analyzed:** 10/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.17
Endrin [1] 2.89

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BREAKDOWN REPORT

Lab Sample ID: S028418-PEM3 **Analyzed:** 10/17/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.04
Endrin [2] 2.39

BREAKDOWN REPORT

Lab Sample ID: S028418-PEM4 **Analyzed:** 10/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.37
Endrin [1] 3.18

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 2.32

BREAKDOWN REPORT

Lab Sample ID: S028418-PEM5 **Analyzed:** 10/18/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.52
Endrin [1] 3.10

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.39
Endrin [2] 2.70

BREAKDOWN REPORT

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

BREAKDOWN REPORT

Lab Sample ID: S028418-PEM6 Analyzed: 10/18/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.85
Endrin [1]	3.54

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.72
Endrin [2]	3.14

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND remediation

Company Name:

Address: 74 Hudson River Road Waterford, NY

Phone:

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: OU_2 Sed

Project Number:

Project Manager: Matthew Warren

Con-Test Quote Name/Number:

Invoice Recipient: mjw@land-remediation.com

Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day

Due Date:

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

Data Delivery: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: mjw@land-remediation.com

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-39-Bottom	10/15/2018 6:05pm	10/15/2018 6:05pm	X	X	S	L
2	OU2-SED-113-Sidewall	10/15/2018 6:10pm	10/15/2018 6:10pm	X	X	S	L
3	OU2-SED-114-Sidewall	10/15/2018 6:15pm	10/15/2018 6:15pm	X	X	S	L

ANALYSIS REQUESTED

8260 Standard* 8081* 8270 PAH

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)

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

Comments: *8081: 4-4DDE, 4-4DDT, 4-4DDT, BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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

Deliverables:
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hts-Only EDD

Program & Regulatory Information:
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

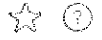
PCB ONLY:
 Soxhlet
 Non Soxhlet

1830816



TRACK ANOTHER SHIPMENT

813219356420



Delivered
Wednesday 10/17/2018 at 9:03 am



DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

10/17/2018 - Wednesday

9:03 am

Delivered

MA

Expand History

10/16/2018 - Tuesday

4:19 pm

Picked up

PLATTSBURGH, NY



OUR COMPANY

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Careers

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 10/17/18 Time 903

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 # 557 Actual Temp - 3.0
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? _____

Who was notified? Cate + Lauren

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	5	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	6	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:

November 1, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1483

Enclosed are results of analyses for samples received by the laboratory on October 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Chain of Custody/Sample Receipt

50

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/1/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1483

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-40-Bottom	18J1483-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-115-Sidewall	18J1483-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-41-Bottom MS/MSD	18J1483-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-116-Sidewall	18J1483-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-117-Sidewall	18J1483-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-155-Sidewall	18J1483-06	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

4,4'-DDE

18J1483-01[OU2-SED-40-Bottom], 18J1483-02[OU2-SED-115-Sidewall], 18J1483-03[OU2-SED-41-Bottom MS/MSD], 18J1483-04[OU2-SED-116-Sidewall], 18J1483-05[OU2-SED-117-Sidewall], 18J1483-06[OU2-SED-155-Sidewall], B216091-BLK1, B216091-BS1, B216091-BSD1, B216091-MS1, B216091-MSD1

4,4'-DDE [2C]

18J1483-01[OU2-SED-40-Bottom], 18J1483-02[OU2-SED-115-Sidewall], 18J1483-03[OU2-SED-41-Bottom MS/MSD], 18J1483-04[OU2-SED-116-Sidewall], 18J1483-05[OU2-SED-117-Sidewall], 18J1483-06[OU2-SED-155-Sidewall], B216091-BLK1, B216091-BS1, B216091-BSD1, B216091-MS1, B216091-MSD1

SW-846 8260C

Qualifications:

V-34

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

Analyte & Samples(s) Qualified:

Bromomethane

S028889-CCV1

V-36

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

S028889-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-40-Bottom

Sampled: 10/29/2018 16:23

Sample ID: 18J1483-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
Ethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
Toluene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
o-Xylene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 13:37	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/31/18 13:37	
Toluene-d8		97.8	70-130						10/31/18 13:37	
4-Bromofluorobenzene		99.0	70-130						10/31/18 13:37	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-40-Bottom

Sampled: 10/29/2018 16:23

Sample ID: 18J1483-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.21	0.20	0.060	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Acenaphthylene	0.085	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Anthracene	0.25	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Benzo(a)anthracene	0.59	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Benzo(a)pyrene	0.78	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Benzo(b)fluoranthene	0.67	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Benzo(g,h,i)perylene	0.48	0.20	0.088	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Benzo(k)fluoranthene	0.24	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Chrysene	0.55	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Fluoranthene	0.98	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Fluorene	0.12	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Indeno(1,2,3-cd)pyrene	0.44	0.20	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Phenanthrene	0.72	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Pyrene	1.4	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 16:36	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	95.7		30-130				10/31/18 16:36			
2-Fluorobiphenyl	68.1		30-130				10/31/18 16:36			
p-Terphenyl-d14	74.8		30-130				10/31/18 16:36			

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-40-Bottom

Sampled: 10/29/2018 16:23

Sample ID: 18J1483-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 1:17	PJG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:17	PJG
Endosulfan I [1]	ND	0.0056	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:17	PJG
Endosulfan II [1]	ND	0.0089	0.00033	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:17	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.1		30-150						11/1/18 1:17	
Decachlorobiphenyl [2]	63.6		30-150						11/1/18 1:17	
Tetrachloro-m-xylene [1]	72.8		30-150						11/1/18 1:17	
Tetrachloro-m-xylene [2]	67.4		30-150						11/1/18 1:17	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-40-Bottom

Sampled: 10/29/2018 16:23

Sample ID: 18J1483-01

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	83.4		% Wt	1		SM 2540G	10/31/18	11/1/18 9:34	JFC

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-115-Sidewall

Sampled: 10/29/2018 16:27

Sample ID: 18J1483-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
Ethylbenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
Isopropylbenzene (Cumene)	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
Toluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
1,2,4-Trimethylbenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
o-Xylene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
Xylenes (total)	ND	0.0067		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 14:04	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/31/18 14:04	
Toluene-d8		95.9	70-130						10/31/18 14:04	
4-Bromofluorobenzene		95.2	70-130						10/31/18 14:04	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-115-Sidewall

Sampled: 10/29/2018 16:27

Sample ID: 18J1483-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.27	0.082	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Acenaphthylene	ND	0.27	0.091	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Anthracene	ND	0.27	0.078	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Benzo(a)anthracene	ND	0.27	0.072	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Benzo(a)pyrene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Benzo(b)fluoranthene	ND	0.27	0.077	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Benzo(g,h,i)perylene	ND	0.27	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Benzo(k)fluoranthene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Chrysene	ND	0.27	0.085	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Dibenz(a,h)anthracene	ND	0.27	0.17	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Fluoranthene	ND	0.27	0.090	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Fluorene	ND	0.27	0.088	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.27	0.20	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
2-Methylnaphthalene	ND	0.27	0.094	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Naphthalene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Phenanthrene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Pyrene	ND	0.27	0.090	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:01	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		87.5	30-130						10/31/18 17:01	
2-Fluorobiphenyl		55.7	30-130						10/31/18 17:01	
p-Terphenyl-d14		56.9	30-130						10/31/18 17:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-115-Sidewall

Sampled: 10/29/2018 16:27

Sample ID: 18J1483-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0059	0.00045	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 1:44	PJG
4,4'-DDT [1]	ND	0.0059	0.00059	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:44	PJG
Endosulfan I [1]	ND	0.0074	0.00059	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:44	PJG
Endosulfan II [1]	ND	0.012	0.00045	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 1:44	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	57.1		30-150						11/1/18 1:44	
Decachlorobiphenyl [2]	55.7		30-150						11/1/18 1:44	
Tetrachloro-m-xylene [1]	79.9		30-150						11/1/18 1:44	
Tetrachloro-m-xylene [2]	77.7		30-150						11/1/18 1:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-115-Sidewall

Sampled: 10/29/2018 16:27

Sample ID: 18J1483-02

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	62.3		% Wt	1		SM 2540G	10/31/18	11/1/18 9:34	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-41-Bottom MS/MSD

Sampled: 10/30/2018 12:03

Sample ID: 18J1483-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 10:53	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/31/18 10:53	
Toluene-d8		97.0	70-130						10/31/18 10:53	
4-Bromofluorobenzene		97.4	70-130						10/31/18 10:53	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-41-Bottom MS/MSD

Sampled: 10/30/2018 12:03

Sample ID: 18J1483-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:27	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		97.6	30-130						10/31/18 17:27	
2-Fluorobiphenyl		74.8	30-130						10/31/18 17:27	
p-Terphenyl-d14		90.3	30-130						10/31/18 17:27	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-41-Bottom MS/MSD

Sampled: 10/30/2018 12:03

Sample ID: 18J1483-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0043	0.00032	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 2:11	PJG
4,4'-DDT [1]	ND	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:11	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:11	PJG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:11	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.3		30-150						11/1/18 2:11	
Decachlorobiphenyl [2]	90.5		30-150						11/1/18 2:11	
Tetrachloro-m-xylene [1]	88.6		30-150						11/1/18 2:11	
Tetrachloro-m-xylene [2]	92.5		30-150						11/1/18 2:11	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-41-Bottom MS/MSD

Sampled: 10/30/2018 12:03

Sample ID: 18J1483-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	10/31/18	11/1/18 9:34	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-116-Sidewall

Sampled: 10/30/2018 12:06

Sample ID: 18J1483-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:20	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/31/18 11:20	
Toluene-d8		96.8	70-130						10/31/18 11:20	
4-Bromofluorobenzene		98.7	70-130						10/31/18 11:20	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-116-Sidewall

Sampled: 10/30/2018 12:06

Sample ID: 18J1483-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 17:54	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		86.7	30-130						10/31/18 17:54	
2-Fluorobiphenyl		69.7	30-130						10/31/18 17:54	
p-Terphenyl-d14		85.1	30-130						10/31/18 17:54	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-116-Sidewall

Sampled: 10/30/2018 12:06

Sample ID: 18J1483-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 2:38	PJG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:38	PJG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:38	PJG
Endosulfan II [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 2:38	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	58.4		30-150						11/1/18 2:38	
Decachlorobiphenyl [2]	69.8		30-150						11/1/18 2:38	
Tetrachloro-m-xylene [1]	65.7		30-150						11/1/18 2:38	
Tetrachloro-m-xylene [2]	69.8		30-150						11/1/18 2:38	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-116-Sidewall

Sampled: 10/30/2018 12:06

Sample ID: 18J1483-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	10/31/18	11/1/18 9:35	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-117-Sidewall

Sampled: 10/30/2018 12:00

Sample ID: 18J1483-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 11:48	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/31/18 11:48	
Toluene-d8		96.0	70-130						10/31/18 11:48	
4-Bromofluorobenzene		95.8	70-130						10/31/18 11:48	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-117-Sidewall

Sampled: 10/30/2018 12:00

Sample ID: 18J1483-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:23	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		94.3	30-130						10/31/18 18:23	
2-Fluorobiphenyl		72.8	30-130						10/31/18 18:23	
p-Terphenyl-d14		82.7	30-130						10/31/18 18:23	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-117-Sidewall

Sampled: 10/30/2018 12:00

Sample ID: 18J1483-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 3:05	PJG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:05	PJG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:05	PJG
Endosulfan II [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:05	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.8		30-150						11/1/18 3:05	
Decachlorobiphenyl [2]	75.6		30-150						11/1/18 3:05	
Tetrachloro-m-xylene [1]	73.7		30-150						11/1/18 3:05	
Tetrachloro-m-xylene [2]	73.1		30-150						11/1/18 3:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-117-Sidewall

Sampled: 10/30/2018 12:00

Sample ID: 18J1483-05

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	85.4		% Wt	1		SM 2540G	10/31/18	11/1/18 9:35	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-155-Sidewall

Sampled: 10/30/2018 16:19

Sample ID: 18J1483-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 12:15	MF
o-Xylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 12:15	MF
Xylenes (total)	ND	0.0049		mg/Kg dry	1		SW-846 8260C	10/31/18	10/31/18 12:15	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	106		70-130						10/31/18 12:15	
Toluene-d8	95.8		70-130						10/31/18 12:15	
4-Bromofluorobenzene	97.8		70-130						10/31/18 12:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-155-Sidewall

Sampled: 10/30/2018 16:19

Sample ID: 18J1483-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	4.6	0.23	0.068	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Acenaphthylene	0.12	0.23	0.076	mg/Kg dry	1	J	SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Anthracene	1.7	0.23	0.065	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Benzo(a)anthracene	0.84	0.23	0.060	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Benzo(a)pyrene	1.0	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Benzo(b)fluoranthene	0.70	0.23	0.064	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Benzo(g,h,i)perylene	0.55	0.23	0.10	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Benzo(k)fluoranthene	0.26	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Chrysene	0.73	0.23	0.071	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Fluoranthene	1.8	0.23	0.075	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Fluorene	2.0	0.23	0.073	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Indeno(1,2,3-cd)pyrene	0.47	0.23	0.16	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
2-Methylnaphthalene	1.7	0.23	0.079	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Naphthalene	0.83	0.23	0.12	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Phenanthrene	6.4	0.91	0.47	mg/Kg dry	4		SW-846 8270D	10/31/18	11/1/18 12:21	BGL
Pyrene	3.0	0.23	0.075	mg/Kg dry	1		SW-846 8270D	10/31/18	10/31/18 18:53	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	92.6		30-130				10/31/18 18:53			
Nitrobenzene-d5	86.0		30-130				11/1/18 12:21			
2-Fluorobiphenyl	73.8		30-130				10/31/18 18:53			
2-Fluorobiphenyl	69.0		30-130				11/1/18 12:21			
p-Terphenyl-d14	84.4		30-130				10/31/18 18:53			
p-Terphenyl-d14	72.6		30-130				11/1/18 12:21			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-155-Sidewall

Sampled: 10/30/2018 16:19

Sample ID: 18J1483-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0053	0.00040	mg/Kg dry	1	R-05	SW-846 8081B	10/31/18	11/1/18 3:32	PJG
4,4'-DDT [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:32	PJG
Endosulfan I [1]	ND	0.0066	0.00053	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:32	PJG
Endosulfan II [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	10/31/18	11/1/18 3:32	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	59.1		30-150						11/1/18 3:32	
Decachlorobiphenyl [2]	57.2		30-150						11/1/18 3:32	
Tetrachloro-m-xylene [1]	66.1		30-150						11/1/18 3:32	
Tetrachloro-m-xylene [2]	64.0		30-150						11/1/18 3:32	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-155-Sidewall

Sampled: 10/30/2018 16:19

Sample ID: 18J1483-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	1.6	0.45	mg/Kg dry	1		SW-846 6010D	10/31/18	11/1/18 14:20	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18J1483

Date Received: 10/31/2018

Field Sample #: OU2-SED-155-Sidewall

Sampled: 10/30/2018 16:19

Sample ID: 18J1483-06

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	74.8		% Wt	1		SM 2540G	10/31/18	11/1/18 9:35	JFC

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J1483-01 [OU2-SED-40-Bottom]	B216096	10/31/18
18J1483-02 [OU2-SED-115-Sidewall]	B216096	10/31/18
18J1483-03 [OU2-SED-41-Bottom MS/MSD]	B216096	10/31/18
18J1483-04 [OU2-SED-116-Sidewall]	B216096	10/31/18
18J1483-05 [OU2-SED-117-Sidewall]	B216096	10/31/18
18J1483-06 [OU2-SED-155-Sidewall]	B216096	10/31/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1483-06 [OU2-SED-155-Sidewall]	B216123	1.48	50.0	10/31/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1483-01 [OU2-SED-40-Bottom]	B216091	10.8	10.0	10/31/18
18J1483-02 [OU2-SED-115-Sidewall]	B216091	10.8	10.0	10/31/18
18J1483-03 [OU2-SED-41-Bottom MS/MSD]	B216091	10.9	10.0	10/31/18
18J1483-04 [OU2-SED-116-Sidewall]	B216091	10.8	10.0	10/31/18
18J1483-05 [OU2-SED-117-Sidewall]	B216091	10.7	10.0	10/31/18
18J1483-06 [OU2-SED-155-Sidewall]	B216091	10.1	10.0	10/31/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1483-01 [OU2-SED-40-Bottom]	B216088	9.25	10.0	10/31/18
18J1483-02 [OU2-SED-115-Sidewall]	B216088	7.21	10.0	10/31/18
18J1483-03 [OU2-SED-41-Bottom MS/MSD]	B216088	8.75	10.0	10/31/18
18J1483-04 [OU2-SED-116-Sidewall]	B216088	8.67	10.0	10/31/18
18J1483-05 [OU2-SED-117-Sidewall]	B216088	8.49	10.0	10/31/18
18J1483-06 [OU2-SED-155-Sidewall]	B216088	8.19	10.0	10/31/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1483-01 [OU2-SED-40-Bottom]	B216093	30.5	1.00	10/31/18
18J1483-02 [OU2-SED-115-Sidewall]	B216093	30.1	1.00	10/31/18
18J1483-03 [OU2-SED-41-Bottom MS/MSD]	B216093	30.0	1.00	10/31/18
18J1483-04 [OU2-SED-116-Sidewall]	B216093	30.3	1.00	10/31/18
18J1483-05 [OU2-SED-117-Sidewall]	B216093	30.0	1.00	10/31/18
18J1483-06 [OU2-SED-155-Sidewall]	B216093	30.1	1.00	10/31/18
18J1483-06RE1 [OU2-SED-155-Sidewall]	B216093	30.1	1.00	10/31/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216088 - SW-846 5035										
Blank (B216088-BLK1)										
Prepared & Analyzed: 10/31/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0483		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/Kg wet	0.0500		95.9	70-130			
LCS (B216088-BS1)										
Prepared & Analyzed: 10/31/18										
Benzene	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130			
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Toluene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130			
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
m+p Xylene	0.0385	0.0040	mg/Kg wet	0.0400		96.4	70-130			
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0482		mg/Kg wet	0.0500		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B216088-BSD1)										
Prepared & Analyzed: 10/31/18										
Benzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	1.88	25	
Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	4.84	25	
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.0970	25	
Toluene	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130		25	
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	4.63	25	
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.4	70-130	4.19	25	
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130	3.02	25	
Surrogate: 1,2-Dichloroethane-d4	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0491		mg/Kg wet	0.0500		98.1	70-130			
Matrix Spike (B216088-MS1)										
Source: 18J1483-03 Prepared & Analyzed: 10/31/18										
Benzene	0.0110	0.0013	mg/Kg dry	0.0133	ND	82.7	70-130			
Ethylbenzene	0.0116	0.0013	mg/Kg dry	0.0133	ND	87.2	70-130			
Isopropylbenzene (Cumene)	0.0116	0.0013	mg/Kg dry	0.0133	ND	87.0	70-130			
Toluene	0.0105	0.0013	mg/Kg dry	0.0133	ND	79.0	70-130			
1,2,4-Trimethylbenzene	0.0106	0.0013	mg/Kg dry	0.0133	ND	79.8	70-130			
m+p Xylene	0.0222	0.0027	mg/Kg dry	0.0266	ND	83.5	70-130			
o-Xylene	0.0107	0.0013	mg/Kg dry	0.0133	ND	80.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0338		mg/Kg dry	0.0332		102	70-130			
Surrogate: Toluene-d8	0.0319		mg/Kg dry	0.0332		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0333		mg/Kg dry	0.0332		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216088 - SW-846 5035

Matrix Spike Dup (B216088-MSD1)

Source: 18J1483-03

Prepared & Analyzed: 10/31/18

Benzene	0.0116	0.0013	mg/Kg dry	0.0133	ND	87.7	70-130	5.87	30	
Ethylbenzene	0.0114	0.0013	mg/Kg dry	0.0133	ND	85.5	70-130	1.97	30	
Isopropylbenzene (Cumene)	0.0120	0.0013	mg/Kg dry	0.0133	ND	90.5	70-130	3.94	30	
Toluene	0.0111	0.0013	mg/Kg dry	0.0133	ND	83.3	70-130	5.30	30	
1,2,4-Trimethylbenzene	0.0107	0.0013	mg/Kg dry	0.0133	ND	80.2	70-130	0.500	30	
m+p Xylene	0.0221	0.0027	mg/Kg dry	0.0266	ND	83.2	70-130	0.300	30	
o-Xylene	0.0114	0.0013	mg/Kg dry	0.0133	ND	85.9	70-130	6.49	30	
Surrogate: 1,2-Dichloroethane-d4	0.0350		mg/Kg dry	0.0332		106	70-130			
Surrogate: Toluene-d8	0.0321		mg/Kg dry	0.0332		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0326		mg/Kg dry	0.0332		98.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216093 - SW-846 3546

Blank (B216093-BLK1)

Prepared & Analyzed: 10/31/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.31		mg/Kg wet	3.33		99.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.7	30-130			
Surrogate: p-Terphenyl-d14	3.31		mg/Kg wet	3.33		99.4	30-130			

LCS (B216093-BS1)

Prepared & Analyzed: 10/31/18

Acenaphthene	1.45	0.17	mg/Kg wet	1.67		87.0	40-140			
Acenaphthylene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Anthracene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140			
Benzo(a)anthracene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140			
Benzo(a)pyrene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
Benzo(b)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Benzo(k)fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.1	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Fluoranthene	1.45	0.17	mg/Kg wet	1.67		86.7	40-140			
Fluorene	1.53	0.17	mg/Kg wet	1.67		91.5	40-140			
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140			
2-Methylnaphthalene	1.56	0.17	mg/Kg wet	1.67		93.8	40-140			
Naphthalene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Phenanthrene	1.47	0.17	mg/Kg wet	1.67		87.9	40-140			
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
Surrogate: Nitrobenzene-d5	3.35		mg/Kg wet	3.33		101	30-130			
Surrogate: 2-Fluorobiphenyl	2.84		mg/Kg wet	3.33		85.3	30-130			
Surrogate: p-Terphenyl-d14	3.10		mg/Kg wet	3.33		93.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216093 - SW-846 3546										
LCS Dup (B216093-BSD1)										
Prepared & Analyzed: 10/31/18										
Acenaphthene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	0.831	30	
Acenaphthylene	1.53	0.17	mg/Kg wet	1.67		91.9	40-140	0.174	30	
Anthracene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	2.34	30	
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	7.42	30	
Benzo(a)pyrene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140	5.99	30	
Benzo(b)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	6.68	30	
Benzo(g,h,i)perylene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	15.2	30	
Benzo(k)fluoranthene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140	6.78	30	
Chrysene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140	7.54	30	
Dibenz(a,h)anthracene	1.49	0.17	mg/Kg wet	1.67		89.5	40-140	14.0	30	
Fluoranthene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	0.880	30	
Fluorene	1.59	0.17	mg/Kg wet	1.67		95.2	40-140	3.94	30	
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.8	40-140	13.8	30	
2-Methylnaphthalene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	6.11	30	
Naphthalene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	3.76	30	
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	1.61	30	
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	9.47	30	
Surrogate: Nitrobenzene-d5	3.31		mg/Kg wet	3.33		99.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.82		mg/Kg wet	3.33		84.7	30-130			
Surrogate: p-Terphenyl-d14	3.54		mg/Kg wet	3.33		106	30-130			
Matrix Spike (B216093-MS1)										
Source: 18J1483-03										
Prepared & Analyzed: 10/31/18										
Acenaphthene	1.59	0.20	mg/Kg dry	1.92	ND	82.8	40-140			
Acenaphthylene	1.70	0.20	mg/Kg dry	1.92	ND	88.5	40-140			
Anthracene	1.55	0.20	mg/Kg dry	1.92	ND	81.0	40-140			
Benzo(a)anthracene	1.62	0.20	mg/Kg dry	1.92	ND	84.4	40-140			
Benzo(a)pyrene	1.65	0.20	mg/Kg dry	1.92	ND	85.9	40-140			
Benzo(b)fluoranthene	1.54	0.20	mg/Kg dry	1.92	ND	80.3	40-140			
Benzo(g,h,i)perylene	1.45	0.20	mg/Kg dry	1.92	ND	75.9	40-140			
Benzo(k)fluoranthene	1.57	0.20	mg/Kg dry	1.92	ND	82.1	40-140			
Chrysene	1.50	0.20	mg/Kg dry	1.92	ND	78.4	40-140			
Dibenz(a,h)anthracene	1.44	0.20	mg/Kg dry	1.92	ND	75.3	40-140			
Fluoranthene	1.39	0.20	mg/Kg dry	1.92	ND	72.3	40-140			
Fluorene	1.67	0.20	mg/Kg dry	1.92	ND	87.3	40-140			
Indeno(1,2,3-cd)pyrene	1.52	0.20	mg/Kg dry	1.92	ND	79.4	40-140			
2-Methylnaphthalene	1.70	0.20	mg/Kg dry	1.92	ND	88.4	40-140			
Naphthalene	1.57	0.20	mg/Kg dry	1.92	ND	81.7	40-140			
Phenanthrene	1.57	0.20	mg/Kg dry	1.92	ND	81.7	40-140			
Pyrene	1.58	0.20	mg/Kg dry	1.92	ND	82.6	40-140			
Surrogate: Nitrobenzene-d5	3.72		mg/Kg dry	3.83		97.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.15		mg/Kg dry	3.83		82.2	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/Kg dry	3.83		90.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216093 - SW-846 3546										
Matrix Spike Dup (B216093-MSD1)	Source: 18J1483-03			Prepared: 10/31/18 Analyzed: 11/01/18						
Acenaphthene	1.52	0.19	mg/Kg dry	1.90	ND	80.3	40-140	4.03	30	
Acenaphthylene	1.63	0.19	mg/Kg dry	1.90	ND	85.7	40-140	4.18	30	
Anthracene	1.52	0.19	mg/Kg dry	1.90	ND	80.2	40-140	1.93	30	
Benzo(a)anthracene	1.55	0.19	mg/Kg dry	1.90	ND	81.8	40-140	4.04	30	
Benzo(a)pyrene	1.58	0.19	mg/Kg dry	1.90	ND	83.2	40-140	4.18	30	
Benzo(b)fluoranthene	1.46	0.19	mg/Kg dry	1.90	ND	76.7	40-140	5.62	30	
Benzo(g,h,i)perylene	1.67	0.19	mg/Kg dry	1.90	ND	87.9	40-140	13.7	30	
Benzo(k)fluoranthene	1.50	0.19	mg/Kg dry	1.90	ND	78.7	40-140	5.14	30	
Chrysene	1.46	0.19	mg/Kg dry	1.90	ND	77.0	40-140	2.89	30	
Dibenz(a,h)anthracene	1.56	0.19	mg/Kg dry	1.90	ND	82.1	40-140	7.69	30	
Fluoranthene	1.50	0.19	mg/Kg dry	1.90	ND	79.2	40-140	8.20	30	
Fluorene	1.66	0.19	mg/Kg dry	1.90	ND	87.6	40-140	0.597	30	
Indeno(1,2,3-cd)pyrene	1.69	0.19	mg/Kg dry	1.90	ND	89.0	40-140	10.3	30	
2-Methylnaphthalene	1.57	0.19	mg/Kg dry	1.90	ND	82.6	40-140	7.81	30	
Naphthalene	1.46	0.19	mg/Kg dry	1.90	ND	77.1	40-140	6.85	30	
Phenanthrene	1.51	0.19	mg/Kg dry	1.90	ND	79.6	40-140	3.54	30	
Pyrene	1.55	0.19	mg/Kg dry	1.90	ND	81.8	40-140	1.98	30	
Surrogate: Nitrobenzene-d5	3.36		mg/Kg dry	3.80		88.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.97		mg/Kg dry	3.80		78.1	30-130			
Surrogate: p-Terphenyl-d14	3.48		mg/Kg dry	3.80		91.7	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216091 - SW-846 3546										
Blank (B216091-BLK1)										
Prepared & Analyzed: 10/31/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							R-05
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							R-05
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.0753		mg/Kg wet	0.200		37.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0848		mg/Kg wet	0.200		42.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.0840		mg/Kg wet	0.200		42.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0836		mg/Kg wet	0.200		41.8	30-150			
LCS (B216091-BS1)										
Prepared & Analyzed: 10/31/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		85.9	40-140			R-05
4,4'-DDE [2C]	0.088	0.0040	mg/Kg wet	0.100		87.9	40-140			R-05
4,4'-DDT	0.060	0.0040	mg/Kg wet	0.100		59.8	40-140			
4,4'-DDT [2C]	0.061	0.0040	mg/Kg wet	0.100		60.7	40-140			
Endosulfan I	0.069	0.0050	mg/Kg wet	0.100		69.3	40-140			
Endosulfan I [2C]	0.073	0.0050	mg/Kg wet	0.100		72.8	40-140			
Endosulfan II	0.068	0.0080	mg/Kg wet	0.100		68.4	40-140			
Endosulfan II [2C]	0.072	0.0080	mg/Kg wet	0.100		72.1	40-140			
Surrogate: Decachlorobiphenyl	0.134		mg/Kg wet	0.200		67.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.147		mg/Kg wet	0.200		73.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.143		mg/Kg wet	0.200		71.4	30-150			
LCS Dup (B216091-BSD1)										
Prepared & Analyzed: 10/31/18										
4,4'-DDE	0.12	0.0040	mg/Kg wet	0.100		118	40-140	31.5 *	30	R-05
4,4'-DDE [2C]	0.12	0.0040	mg/Kg wet	0.100		122	40-140	32.4 *	30	R-05
4,4'-DDT	0.047	0.0040	mg/Kg wet	0.100		47.2	40-140	23.5	30	
4,4'-DDT [2C]	0.050	0.0040	mg/Kg wet	0.100		50.2	40-140	18.8	30	
Endosulfan I	0.079	0.0050	mg/Kg wet	0.100		79.4	40-140	13.7	30	
Endosulfan I [2C]	0.084	0.0050	mg/Kg wet	0.100		84.4	40-140	14.7	30	
Endosulfan II	0.076	0.0080	mg/Kg wet	0.100		75.7	40-140	10.0	30	
Endosulfan II [2C]	0.080	0.0080	mg/Kg wet	0.100		80.3	40-140	10.8	30	
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		79.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.0	30-150			
Matrix Spike (B216091-MS1)										
Source: 18J1483-03 Prepared: 10/31/18 Analyzed: 11/01/18										
4,4'-DDE	0.12	0.0045	mg/Kg dry	0.112	ND	105	30-150			R-05
4,4'-DDE [2C]	0.12	0.0045	mg/Kg dry	0.112	ND	110	30-150			R-05
4,4'-DDT	0.041	0.0045	mg/Kg dry	0.112	ND	36.9	30-150			
4,4'-DDT [2C]	0.044	0.0045	mg/Kg dry	0.112	ND	39.3	30-150			
Endosulfan I	0.077	0.0056	mg/Kg dry	0.112	ND	69.2	30-150			
Endosulfan I [2C]	0.083	0.0056	mg/Kg dry	0.112	ND	74.0	30-150			
Endosulfan II	0.072	0.0089	mg/Kg dry	0.112	ND	64.9	30-150			
Endosulfan II [2C]	0.077	0.0089	mg/Kg dry	0.112	ND	68.8	30-150			
Surrogate: Decachlorobiphenyl	0.136		mg/Kg dry	0.223		61.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.166		mg/Kg dry	0.223		74.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216091 - SW-846 3546										
Matrix Spike (B216091-MS1)		Source: 18J1483-03			Prepared: 10/31/18 Analyzed: 11/01/18					
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg dry	0.223		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.165		mg/Kg dry	0.223		73.8	30-150			
Matrix Spike Dup (B216091-MSD1)		Source: 18J1483-03			Prepared: 10/31/18 Analyzed: 11/01/18					
4,4'-DDE	0.12	0.0043	mg/Kg dry	0.107	ND	111	30-150	1.09	30	R-05
4,4'-DDE [2C]	0.12	0.0043	mg/Kg dry	0.107	ND	117	30-150	1.50	30	R-05
4,4'-DDT	0.034	0.0043	mg/Kg dry	0.107	ND	32.2	30-150	18.4	30	
4,4'-DDT [2C]	0.039	0.0043	mg/Kg dry	0.107	ND	36.1	30-150	12.9	30	
Endosulfan I	0.075	0.0053	mg/Kg dry	0.107	ND	69.9	30-150	3.58	30	
Endosulfan I [2C]	0.080	0.0053	mg/Kg dry	0.107	ND	74.8	30-150	3.60	30	
Endosulfan II	0.069	0.0085	mg/Kg dry	0.107	ND	64.5	30-150	5.20	30	
Endosulfan II [2C]	0.074	0.0085	mg/Kg dry	0.107	ND	69.0	30-150	4.45	30	
Surrogate: Decachlorobiphenyl	0.132		mg/Kg dry	0.213		62.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg dry	0.213		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg dry	0.213		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg dry	0.213		75.7	30-150			

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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 B216123 - SW-846 3050B										
Blank (B216123-BLK1)										
					Prepared: 10/31/18 Analyzed: 11/01/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216123-BS1)										
					Prepared: 10/31/18 Analyzed: 11/01/18					
Chromium	135	0.94	mg/Kg wet	136		99.1	82.4-117.6			
LCS Dup (B216123-BSD1)										
					Prepared: 10/31/18 Analyzed: 11/01/18					
Chromium	129	0.99	mg/Kg wet	136		94.6	82.4-117.6	4.65	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216096 - % Solids

Duplicate (B216096-DUP1)

Source: 18J1483-03

Prepared: 10/31/18 Analyzed: 11/01/18

% Solids	86.1		% Wt		86.1			0.0935	20	
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BREAKDOWN REPORT

Lab Sample ID: S028955-PEM1 **Analyzed:** 10/31/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.50
Endrin [1] 3.02

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.10
Endrin [2] 2.67

BREAKDOWN REPORT

Lab Sample ID: S028955-PEM2 **Analyzed:** 10/31/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.44
Endrin [1] 2.52

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.06
Endrin [2] 2.00

BREAKDOWN REPORT

Lab Sample ID: S028955-PEM3 **Analyzed:** 11/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.72
Endrin [1] 2.91

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BREAKDOWN REPORT

Lab Sample ID: S028955-PEM3 **Analyzed:** 11/01/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.25
Endrin [2] 2.48

BREAKDOWN REPORT

Lab Sample ID: S028955-PEM4 **Analyzed:** 11/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.76
Endrin [1] 2.43

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.42
Endrin [2] 2.07

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B216091-MS1 Date(s) Analyzed 11/01/2018 11/01/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.355	6.324	6.384	0.12	
	2	6.465	6.435	6.495	0.12	0.0
4,4'-DDT	1	6.968	6.938	6.998	0.041	
	2	7.104	7.076	7.136	0.044	7.1
Endosulfan I	1	6.377	6.347	6.407	0.077	
	2	6.368	6.337	6.397	0.083	7.5
Endosulfan II	1	6.855	6.826	6.886	0.072	
	2	6.925	6.895	6.955	0.077	5.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B216091-MSD1 Date(s) Analyzed 11/01/2018 11/01/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.355	6.324	6.384	0.12	
	2	6.465	6.435	6.495	0.12	0.0
4,4'-DDT	1	6.968	6.938	6.998	0.034	
	2	7.105	7.076	7.136	0.039	13.7
Endosulfan I	1	6.377	6.347	6.407	0.075	
	2	6.368	6.337	6.397	0.080	6.5
Endosulfan II	1	6.856	6.826	6.886	0.069	
	2	6.925	6.895	6.955	0.074	7.0

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



1851483
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 2

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: miw@land-remediation.com
Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day
Due Date:
Rush-Approval Required:
 1-Day 3-Day
 2-Day 4-Day
Data Delivery:
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
O1	OU2-SED-40-Bottom	10/29/2018 0:00	10/29/2018 4:23pm		X	S	L
O2	OU2-SED-115-Sidewall	10/29/2018 0:00	10/29/2018 4:27pm		X	S	L
O3	OU2-SED-41-Bottom	10/30/2018 0:00	10/30/2018 12:03pm		X	S	L
O4	OU2-SED-41-Bottom (MS)	10/31/2018 0:00	10/30/2018 12:03pm		X	S	L
O5	OU2-SED-41-Bottom(MSD)	11/1/2018 0:00	10/30/2018 12:03pm		X	S	L
O6	OU2-SED-116-Sidewall	11/2/2018 0:00	10/30/2017 12:06pm		X	S	L
O7	OU2-SED-117-Sidewall	11/3/2018 0:00	10/30/2018 12:00pm		X	S	L

ANALYSIS REQUESTED
 8260 Standard*
 8081*

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

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

Deliverables:
 Enhanced Data Package
 NYSDEC EquiS EDD
 EquiS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information:
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

Comments: *8081: 4-4DDE, 4-4DDT, 4-4DDT, BTEX, 124-TMB, Isopropylbenzene + Total Xylene

Retinquished by: (signature) Date/Time: 10/31/18 3:30pm
 Received by: (signature) Date/Time: 10/31/18 9:06
 Retinquished by: (signature) Date/Time:
 ved by: (signature) Date/Time:
 quished by: (signature) Date/Time:
 ved by: (signature) Date/Time:

Company Name: LAND remediation Address: 74 Hudson River Road Waterford, NY Phone: NYSDEC Saranac Lake Gas Co. Project Name: OU_2 Soil Project Location: Matthew Warren Project Number: Project Manager: Con-Test Quote Name/Number: Invoice Recipient: mjiw@land-remediation.com Sampled By: Ethan Bradt		Requested Turnaround Time 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Due Date: Rush-Approval Required 1-Day <input checked="" type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/> Data Delivery Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> Other: CLP Like Data Pkg Required: <input type="checkbox"/> Email To: mjiw@land-remediation.com Fax To #:		Matrix Codes GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)											
Con-Test Work Order# 06		Client Sample ID / Description OU2-Soil-155-Sidewall		Beginning Date/Time 10/29/2018 0:00		Ending Date/Time 10/29/2018 4:19pm		Composite <input checked="" type="checkbox"/>		Grab <input type="checkbox"/>		Matrix Code S		Conc Code L	
Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene															
Relinquished by: (signature) 		Date/Time: 10/21/18 3:30pm		Received by: (signature) 		Date/Time: 10/31/18 9:06		Relinquished by: (signature) 		Date/Time: 		Relinquished by: (signature) 		Date/Time: 	
ANALYSIS REQUESTED 8081 - Alpha-BHC Only 8260 - Xylenes Only + total Xylene 8270 PAH* Chromium 6010															
# of Containers 2 Preservation Code 3 Container Code		Disolved Metals Samples <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter		Ortho Phosphate Samples <input type="checkbox"/> Field Filtered <input type="checkbox"/> 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 <input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet			



Deliverables

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Other:

Program & Regulatory Information

AWQ STDS

NY TOGS

NYC Sewer Discharge

Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

Project Entity

Government

Federal

City

Municipality

21 J

Brownfield

MWRA

School

MBTA

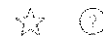
WRTA

Chromatogram

AIMA-LAP, LLC



813219356110



Delivered
Wednesday 10/31/2018 at 9:06 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219356110

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling
Surcharge, Indirect Signature Required

STANDARD TRANSIT
 10/31/2018 by 10:30 am

SHIP DATE
 Tue 10/30/2018

ACTUAL DELIVERY
Wed 10/31/2018 9:06 am

Travel History

Local Scan Time

Wednesday, 10/31/2018

9:06 am	MA	Delivered
8:06 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:54 am	WINDSOR LOCKS, CT	At local FedEx facility
6:24 am	EAST GRANBY, CT	At destination sort facility
4:48 am	INDIANAPOLIS, IN	Departed FedEx location

Tuesday, 10/30/2018

11:55 pm	INDIANAPOLIS, IN	Arrived at FedEx location
6:25 pm	PLATTSBURGH, NY	Left FedEx origin facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PB Date 10-31-18 Time 9:00

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 # 557 Actual Temp -3.2

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 Client T Analysis T Sampler Name F

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Kate

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? T

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

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

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>8</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>160</u>	Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

November 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0024

Enclosed are results of analyses for samples received by the laboratory on November 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0024

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-141-Bottom	18K0024-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-156-Sidewall	18K0024-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-157-Sidewall MS/MSD	18K0024-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-Dup-1	18K0024-04	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****MS-07A**

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

Analyte & Samples(s) Qualified:**alpha-BHC [2C]**

B216154-MS2, B216154-MSD2

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**alpha-BHC**

B216154-MS2

S-13

Surrogate recovery is outside of control limits on both columns. Data validation is not affected since all results are "not detected" and bias is on the high side.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall]

Decachlorobiphenyl [2C]

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall]

SW-846 8270D**Qualifications:****V-05**

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

Analyte & Samples(s) Qualified:**Dibenz(a,h)anthracene**

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall], 18K0024-03[OU2-Soil-157-Sidewall MS/MSD], 18K0024-04[OU2-Soil-Dup-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	99.8	70-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	71.6	30-130	
2-Fluorobiphenyl	61.9	30-130	
p-Terphenyl-d14	72.7	30-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 4:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	177	*	30-150		S-13				11/3/18 4:24	
Decachlorobiphenyl [2]	182	*	30-150		S-13				11/3/18 4:24	
Tetrachloro-m-xylene [1]	116		30-150						11/3/18 4:24	
Tetrachloro-m-xylene [2]	112		30-150						11/3/18 4:24	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.9	0.38	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:22	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

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	86.7		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	101		70-130				11/1/18 16:31			
Toluene-d8	96.4		70-130				11/1/18 16:31			
4-Bromofluorobenzene	100		70-130				11/1/18 16:31			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.8	30-130						11/2/18 10:17	
2-Fluorobiphenyl		65.1	30-130						11/2/18 10:17	
p-Terphenyl-d14		74.2	30-130						11/2/18 10:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 4:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	179	*	30-150		S-13				11/3/18 4:50	
Decachlorobiphenyl [2]	184	*	30-150		S-13				11/3/18 4:50	
Tetrachloro-m-xylene [1]	88.3		30-150						11/3/18 4:50	
Tetrachloro-m-xylene [2]	85.0		30-150						11/3/18 4:50	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.4	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:27	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	
Toluene-d8	96.5	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	79.6	30-130	
2-Fluorobiphenyl	68.6	30-130	
p-Terphenyl-d14	75.8	30-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 5:17	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	98.2		30-150						11/3/18 5:17	
Decachlorobiphenyl [2]	97.6		30-150						11/3/18 5:17	
Tetrachloro-m-xylene [1]	57.1		30-150						11/3/18 5:17	
Tetrachloro-m-xylene [2]	55.2		30-150						11/3/18 5:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.8	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 14:12	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				11/1/18 16:58			
Toluene-d8	97.7		70-130				11/1/18 16:58			
4-Bromofluorobenzene	97.8		70-130				11/1/18 16:58			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	75.5	30-130	
2-Fluorobiphenyl	65.7	30-130	
p-Terphenyl-d14	75.2	30-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 5:44	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.2		30-150						11/3/18 5:44	
Decachlorobiphenyl [2]	99.5		30-150						11/3/18 5:44	
Tetrachloro-m-xylene [1]	45.9		30-150						11/3/18 5:44	
Tetrachloro-m-xylene [2]	44.3		30-150						11/3/18 5:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.5	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:32	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

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	82.9		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216207	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216207	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216207	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216207	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216181	1.50	50.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216181	1.53	50.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216181	1.52	50.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216181	1.53	50.0	11/01/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216154	10.3	10.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216154	10.2	10.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216154	10.2	10.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216154	10.0	10.0	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216212	8.77	10.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216212	8.81	10.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216212	7.89	10.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216212	7.90	10.0	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216206	30.6	1.00	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216206	30.0	1.00	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216206	30.0	1.00	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216206	30.3	1.00	11/01/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216212 - SW-846 5035										
Blank (B216212-BLK1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/Kg wet	0.0500		96.9	70-130			
LCS (B216212-BS1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.5	70-130			
LCS Dup (B216212-BSD1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0357	0.0040	mg/Kg wet	0.0400		89.3	70-130	5.08	25	
o-Xylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	8.67	25	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			
Matrix Spike (B216212-MS1)										
Source: 18K0024-03										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0274	0.0030	mg/Kg dry	0.0299	ND	91.3	70-130			
o-Xylene	0.0136	0.0015	mg/Kg dry	0.0150	ND	91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0379		mg/Kg dry	0.0374		101	70-130			
Surrogate: Toluene-d8	0.0360		mg/Kg dry	0.0374		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0376		mg/Kg dry	0.0374		100	70-130			
Matrix Spike Dup (B216212-MSD1)										
Source: 18K0024-03										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0257	0.0030	mg/Kg dry	0.0299	ND	85.8	70-130	6.27	30	
o-Xylene	0.0131	0.0015	mg/Kg dry	0.0150	ND	87.6	70-130	3.92	30	
Surrogate: 1,2-Dichloroethane-d4	0.0384		mg/Kg dry	0.0374		103	70-130			
Surrogate: Toluene-d8	0.0365		mg/Kg dry	0.0374		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0371		mg/Kg dry	0.0374		99.1	70-130			

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 B216206 - SW-846 3546										
Blank (B216206-BLK1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.15		mg/Kg wet	3.33		64.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.78		mg/Kg wet	3.33		53.5	30-130			
Surrogate: p-Terphenyl-d14	2.46		mg/Kg wet	3.33		73.7	30-130			
LCS (B216206-BS1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140			
Indeno(1,2,3-cd)pyrene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: p-Terphenyl-d14	2.91		mg/Kg wet	3.33		87.2	30-130			
LCS Dup (B216206-BSD1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	4.81	30	
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	3.43	30	
Benzo(b)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140	4.26	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	3.85	30	
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	6.48	30	
Dibenz(a,h)anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	6.44	30	
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	8.07	30	
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		77.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.4	30-130			
Surrogate: p-Terphenyl-d14	2.77		mg/Kg wet	3.33		83.0	30-130			
Matrix Spike (B216206-MS1)										
Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.21	0.20	mg/Kg dry	1.95	ND	62.2	40-140			
Benzo(a)pyrene	1.19	0.20	mg/Kg dry	1.95	ND	61.3	40-140			
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.95	ND	57.5	40-140			
Benzo(k)fluoranthene	1.12	0.20	mg/Kg dry	1.95	ND	57.4	40-140			
Chrysene	1.11	0.20	mg/Kg dry	1.95	ND	57.2	40-140			
Dibenz(a,h)anthracene	1.24	0.20	mg/Kg dry	1.95	ND	63.6	40-140			
Indeno(1,2,3-cd)pyrene	1.33	0.20	mg/Kg dry	1.95	ND	68.3	40-140			
Surrogate: Nitrobenzene-d5	2.61		mg/Kg dry	3.89		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg dry	3.89		53.7	30-130			
Surrogate: p-Terphenyl-d14	2.59		mg/Kg dry	3.89		66.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216206 - SW-846 3546

Matrix Spike Dup (B216206-MSD1)

Source: 18K0024-03

Prepared: 11/01/18 Analyzed: 11/02/18

Benzo(a)anthracene	1.18	0.20	mg/Kg dry	1.96	ND	60.5	40-140	2.18	30	
Benzo(a)pyrene	1.19	0.20	mg/Kg dry	1.96	ND	60.5	40-140	0.562	30	
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.96	ND	57.1	40-140	0.0447	30	
Benzo(k)fluoranthene	1.11	0.20	mg/Kg dry	1.96	ND	56.5	40-140	0.962	30	
Chrysene	1.11	0.20	mg/Kg dry	1.96	ND	56.7	40-140	0.295	30	
Dibenz(a,h)anthracene	1.24	0.20	mg/Kg dry	1.96	ND	63.2	40-140	0.0543	30	
Indeno(1,2,3-cd)pyrene	1.32	0.20	mg/Kg dry	1.96	ND	67.3	40-140	0.792	30	
Surrogate: Nitrobenzene-d5	2.50		mg/Kg dry	3.92		63.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg dry	3.92		53.4	30-130			
Surrogate: p-Terphenyl-d14	2.59		mg/Kg dry	3.92		66.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216154 - SW-846 3546										
Blank (B216154-BLK1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.121		mg/Kg wet	0.200		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.118		mg/Kg wet	0.200		58.8	30-150			
LCS (B216154-BS1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	0.046	0.0050	mg/Kg wet	0.100		46.5	40-140			
alpha-BHC [2C]	0.041	0.0050	mg/Kg wet	0.100		41.0	40-140			
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.117		mg/Kg wet	0.200		58.3	30-150			
LCS Dup (B216154-BSD1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	0.054	0.0050	mg/Kg wet	0.100		53.6	40-140	14.4	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		47.1	40-140	13.7	30	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.3	30-150			
Matrix Spike (B216154-MS2)										
Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/03/18										
alpha-BHC	0.034	0.0058	mg/Kg dry	0.116	ND	29.2	* 30-150			MS-24
alpha-BHC [2C]	0.030	0.0058	mg/Kg dry	0.116	ND	25.6	* 30-150			MS-07A
Surrogate: Decachlorobiphenyl	0.218		mg/Kg dry	0.232		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.232		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg dry	0.232		46.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.103		mg/Kg dry	0.232		44.2	30-150			
Matrix Spike Dup (B216154-MSD2)										
Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/03/18										
alpha-BHC	0.035	0.0057	mg/Kg dry	0.115	ND	30.8	30-150	4.35	30	
alpha-BHC [2C]	0.031	0.0057	mg/Kg dry	0.115	ND	26.7	* 30-150	3.15	30	MS-07A
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.230		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg dry	0.230		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.0946		mg/Kg dry	0.230		41.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0909		mg/Kg dry	0.230		39.6	30-150			

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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 B216181 - SW-846 3050B										
Blank (B216181-BLK1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216181-BS1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	135	1.0	mg/Kg wet	136		99.3	82.4-117.6			
LCS Dup (B216181-BSD1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	138	1.0	mg/Kg wet	136		102	82.4-117.6	2.26	30	
Matrix Spike (B216181-MS2)					Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	20.8	0.40	mg/Kg dry	19.8	2.85	90.8	75-125			
Matrix Spike Dup (B216181-MSD2)					Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	22.0	0.40	mg/Kg dry	20.1	2.85	95.1	75-125	5.62	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
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Batch B216207 - % Solids

Duplicate (B216207-DUP1)

Source: 18K0024-03

Prepared & Analyzed: 11/01/18

% Solids	83.7		% Wt		83.7			0.00	20	
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BREAKDOWN REPORT

Lab Sample ID: S029015-PEM1 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.93
Endrin [1] 2.65

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.12
Endrin [2] 3.55

BREAKDOWN REPORT

Lab Sample ID: S029015-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.40
Endrin [1] 2.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.96
Endrin [2] 2.37

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.31
Endrin [1] 4.21

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BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.84
Endrin [2] 4.36

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 3.40

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 3.46

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM3 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.94
Endrin [1] 3.13

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.35
Endrin [2] 3.21

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216154-BS1 Date(s) Analyzed 11/02/2018 11/02/2018
Instrument ID (1): ECD2 Instrument ID (2): ECD2
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.079	5.049	5.109	0.046	
	2	4.917	4.888	4.948	0.041	13.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216154-BSD1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.049	5.109	0.054	
	2	4.917	4.888	4.948	0.047	13.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B216154-MS2 Date(s) Analyzed 11/03/2018 11/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.048	5.108	0.034	
	2	4.917	4.887	4.947	0.030	12.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B216154-MSD2 Date(s) Analyzed 11/03/2018 11/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.048	5.108	0.035	
	2	4.917	4.887	4.947	0.031	12.1

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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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
S-13	Surrogate recovery is outside of control limits on both columns.
	Data validation is not affected since all results are "not detected" and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone: NYSDEC Saranac Lake Gas Co.
Project Name: OU_2 Soil
Project Location: Matthew Warren
Project Number:
Project Manager:
Con-Test Quote Name/Number: mjlw@land-remediation.com
Invoice Recipient: Ethan Bradt
Sampled By:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU2-Soil-141-Bottom	10/31/2018 0:00	10/31/2018 12:48pm		X	S	L
02	OU2-Soil-156-Sidewall	10/31/2018 0:00	10/31/2018 12:51pm		X	S	L
03	OU2-Soil-157-Sidewall	10/31/2018 0:00	10/31/2018 12:45pm		X	S	L
04	OU2-Soil-157-Sidewall (MS)	10/31/2018 0:00	10/31/2018 12:45pm		X	S	L
05	OU2-Soil-157-Sidewall (MSD)	10/31/2018 0:00	10/31/2018 12:45pm		X	S	L
06	DUP-1	n/a	n/a		X	S	L

Requested Turnaround Time: 7-Day 10-Day
Due Date:
Rush-Approval Required: 1-Day 3-Day 4-Day
Data Delivery: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: mjlw@land-remediation.com
Fax To #:

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

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

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

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
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 SOL = Solid
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Preservation Codes:
 I = Iced
 H = HCL
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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

ANALYSIS REQUESTED
 8260 - Xylenes Only + total Xylene
 8270 PAH*
 Chromium 6010
 8081 - Alpha-BHC Only

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AHA-LAP, LLC

Other:

Relinquished by: (signature) Date/Time: 10/31/18 3:05pm
Received by: (signature) Date/Time: 9:40
Relinquished by: (signature) Date/Time: 11.18
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:



812408468440



Delivered
Thursday 11/01/2018 at 9:42 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
HAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
812408468440

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling
Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/01/2018 by 10:30 am

SHIP DATE
 Wed 10/31/2018

ACTUAL DELIVERY
Thu 11/01/2018 9:42 am

Travel History

Local Scan Time

Thursday, 11/01/2018

9:42 am	MA	Delivered
8:02 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:51 am	WINDSOR LOCKS, CT	At local FedEx facility
7:07 am	EAST GRANBY, CT	At destination sort facility
5:33 am	INDIANAPOLIS, IN	Departed FedEx location
12:03 am	INDIANAPOLIS, IN	Arrived at FedEx location

Wednesday, 10/31/2018

6:23 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PB Date 11-1-18 Time 9:42

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 # 557 Actual Temp - 3.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? F Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

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

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? F

Who was notified? _____
Who was notified? MARK / James
Who was notified? _____

MS/MSD? T
Is splitting samples required? F
On COC? F Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>6</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>12</u>	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:

November 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0024

Enclosed are results of analyses for samples received by the laboratory on November 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0024

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-141-Bottom	18K0024-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-156-Sidewall	18K0024-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-157-Sidewall MS/MSD	18K0024-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-Dup-1	18K0024-04	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****MS-07A**

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

Analyte & Samples(s) Qualified:**alpha-BHC [2C]**

B216154-MS2, B216154-MSD2

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**alpha-BHC**

B216154-MS2

S-13

Surrogate recovery is outside of control limits on both columns. Data validation is not affected since all results are "not detected" and bias is on the high side.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall]

Decachlorobiphenyl [2C]

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall]

SW-846 8270D**Qualifications:****V-05**

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

Analyte & Samples(s) Qualified:**Dibenz(a,h)anthracene**

18K0024-01[OU2-Soil-141-Bottom], 18K0024-02[OU2-Soil-156-Sidewall], 18K0024-03[OU2-Soil-157-Sidewall MS/MSD], 18K0024-04[OU2-Soil-Dup-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 15:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	99.8	70-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 9:51	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 9:51	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	71.6	30-130	
2-Fluorobiphenyl	61.9	30-130	
p-Terphenyl-d14	72.7	30-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 4:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	177	*	30-150		S-13				11/3/18 4:24	
Decachlorobiphenyl [2]	182	*	30-150		S-13				11/3/18 4:24	
Tetrachloro-m-xylene [1]	116		30-150						11/3/18 4:24	
Tetrachloro-m-xylene [2]	112		30-150						11/3/18 4:24	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.9	0.38	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:22	QNW

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-141-Bottom

Sampled: 10/31/2018 12:48

Sample ID: 18K0024-01

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	86.7		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	96.4	70-130	
4-Bromofluorobenzene	100	70-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:17	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.8	30-130						11/2/18 10:17	
2-Fluorobiphenyl		65.1	30-130						11/2/18 10:17	
p-Terphenyl-d14		74.2	30-130						11/2/18 10:17	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 4:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	179	*	30-150		S-13				11/3/18 4:50	
Decachlorobiphenyl [2]	184	*	30-150		S-13				11/3/18 4:50	
Tetrachloro-m-xylene [1]	88.3		30-150						11/3/18 4:50	
Tetrachloro-m-xylene [2]	85.0		30-150						11/3/18 4:50	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.4	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:27	QNW

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-156-Sidewall

Sampled: 10/31/2018 12:51

Sample ID: 18K0024-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 14:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	
Toluene-d8	96.5	70-130	
4-Bromofluorobenzene	101	70-130	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 10:44	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		79.6	30-130						11/2/18 10:44	
2-Fluorobiphenyl		68.6	30-130						11/2/18 10:44	
p-Terphenyl-d14		75.8	30-130						11/2/18 10:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 5:17	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	98.2		30-150						11/3/18 5:17	
Decachlorobiphenyl [2]	97.6		30-150						11/3/18 5:17	
Tetrachloro-m-xylene [1]	57.1		30-150						11/3/18 5:17	
Tetrachloro-m-xylene [2]	55.2		30-150						11/3/18 5:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.8	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 14:12	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-157-Sidewall MS/MSD

Sampled: 10/31/2018 12:45

Sample ID: 18K0024-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 16:58	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				11/1/18 16:58			
Toluene-d8	97.7		70-130				11/1/18 16:58			
4-Bromofluorobenzene	97.8		70-130				11/1/18 16:58			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1	V-05	SW-846 8270D	11/1/18	11/2/18 11:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/1/18	11/2/18 11:10	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	75.5	30-130	
2-Fluorobiphenyl	65.7	30-130	
p-Terphenyl-d14	75.2	30-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 5:44	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.2		30-150						11/3/18 5:44	
Decachlorobiphenyl [2]	99.5		30-150						11/3/18 5:44	
Tetrachloro-m-xylene [1]	45.9		30-150						11/3/18 5:44	
Tetrachloro-m-xylene [2]	44.3		30-150						11/3/18 5:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.5	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/1/18	11/2/18 13:32	QNW

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0024

Date Received: 11/1/2018

Field Sample #: OU2-Soil-Dup-1

Sampled: 10/31/2018 00:00

Sample ID: 18K0024-04

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	82.9		% Wt	1		SM 2540G	11/1/18	11/1/18 14:28	JFC

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216207	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216207	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216207	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216207	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216181	1.50	50.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216181	1.53	50.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216181	1.52	50.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216181	1.53	50.0	11/01/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216154	10.3	10.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216154	10.2	10.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216154	10.2	10.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216154	10.0	10.0	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216212	8.77	10.0	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216212	8.81	10.0	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216212	7.89	10.0	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216212	7.90	10.0	11/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0024-01 [OU2-Soil-141-Bottom]	B216206	30.6	1.00	11/01/18
18K0024-02 [OU2-Soil-156-Sidewall]	B216206	30.0	1.00	11/01/18
18K0024-03 [OU2-Soil-157-Sidewall MS/MSD]	B216206	30.0	1.00	11/01/18
18K0024-04 [OU2-Soil-Dup-1]	B216206	30.3	1.00	11/01/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216212 - SW-846 5035										
Blank (B216212-BLK1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/Kg wet	0.0500		96.9	70-130			
LCS (B216212-BS1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.5	70-130			
LCS Dup (B216212-BSD1)										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0357	0.0040	mg/Kg wet	0.0400		89.3	70-130	5.08	25	
o-Xylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	8.67	25	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			
Matrix Spike (B216212-MS1)										
Source: 18K0024-03										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0274	0.0030	mg/Kg dry	0.0299	ND	91.3	70-130			
o-Xylene	0.0136	0.0015	mg/Kg dry	0.0150	ND	91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0379		mg/Kg dry	0.0374		101	70-130			
Surrogate: Toluene-d8	0.0360		mg/Kg dry	0.0374		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0376		mg/Kg dry	0.0374		100	70-130			
Matrix Spike Dup (B216212-MSD1)										
Source: 18K0024-03										
Prepared & Analyzed: 11/01/18										
m+p Xylene	0.0257	0.0030	mg/Kg dry	0.0299	ND	85.8	70-130	6.27	30	
o-Xylene	0.0131	0.0015	mg/Kg dry	0.0150	ND	87.6	70-130	3.92	30	
Surrogate: 1,2-Dichloroethane-d4	0.0384		mg/Kg dry	0.0374		103	70-130			
Surrogate: Toluene-d8	0.0365		mg/Kg dry	0.0374		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0371		mg/Kg dry	0.0374		99.1	70-130			

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 B216206 - SW-846 3546										
Blank (B216206-BLK1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.15		mg/Kg wet	3.33		64.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.78		mg/Kg wet	3.33		53.5	30-130			
Surrogate: p-Terphenyl-d14	2.46		mg/Kg wet	3.33		73.7	30-130			
LCS (B216206-BS1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140			
Indeno(1,2,3-cd)pyrene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: p-Terphenyl-d14	2.91		mg/Kg wet	3.33		87.2	30-130			
LCS Dup (B216206-BSD1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	4.81	30	
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	3.43	30	
Benzo(b)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140	4.26	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	3.85	30	
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	6.48	30	
Dibenz(a,h)anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	6.44	30	
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	8.07	30	
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		77.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.4	30-130			
Surrogate: p-Terphenyl-d14	2.77		mg/Kg wet	3.33		83.0	30-130			
Matrix Spike (B216206-MS1)										
Source: 18K0024-03										
Prepared: 11/01/18 Analyzed: 11/02/18										
Benzo(a)anthracene	1.21	0.20	mg/Kg dry	1.95	ND	62.2	40-140			
Benzo(a)pyrene	1.19	0.20	mg/Kg dry	1.95	ND	61.3	40-140			
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.95	ND	57.5	40-140			
Benzo(k)fluoranthene	1.12	0.20	mg/Kg dry	1.95	ND	57.4	40-140			
Chrysene	1.11	0.20	mg/Kg dry	1.95	ND	57.2	40-140			
Dibenz(a,h)anthracene	1.24	0.20	mg/Kg dry	1.95	ND	63.6	40-140			
Indeno(1,2,3-cd)pyrene	1.33	0.20	mg/Kg dry	1.95	ND	68.3	40-140			
Surrogate: Nitrobenzene-d5	2.61		mg/Kg dry	3.89		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg dry	3.89		53.7	30-130			
Surrogate: p-Terphenyl-d14	2.59		mg/Kg dry	3.89		66.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216206 - SW-846 3546

Matrix Spike Dup (B216206-MSD1)

Source: 18K0024-03

Prepared: 11/01/18 Analyzed: 11/02/18

Benzo(a)anthracene	1.18	0.20	mg/Kg dry	1.96	ND	60.5	40-140	2.18	30	
Benzo(a)pyrene	1.19	0.20	mg/Kg dry	1.96	ND	60.5	40-140	0.562	30	
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.96	ND	57.1	40-140	0.0447	30	
Benzo(k)fluoranthene	1.11	0.20	mg/Kg dry	1.96	ND	56.5	40-140	0.962	30	
Chrysene	1.11	0.20	mg/Kg dry	1.96	ND	56.7	40-140	0.295	30	
Dibenz(a,h)anthracene	1.24	0.20	mg/Kg dry	1.96	ND	63.2	40-140	0.0543	30	
Indeno(1,2,3-cd)pyrene	1.32	0.20	mg/Kg dry	1.96	ND	67.3	40-140	0.792	30	
Surrogate: Nitrobenzene-d5	2.50		mg/Kg dry	3.92		63.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg dry	3.92		53.4	30-130			
Surrogate: p-Terphenyl-d14	2.59		mg/Kg dry	3.92		66.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216154 - SW-846 3546										
Blank (B216154-BLK1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.121		mg/Kg wet	0.200		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.118		mg/Kg wet	0.200		58.8	30-150			
LCS (B216154-BS1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	0.046	0.0050	mg/Kg wet	0.100		46.5	40-140			
alpha-BHC [2C]	0.041	0.0050	mg/Kg wet	0.100		41.0	40-140			
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.117		mg/Kg wet	0.200		58.3	30-150			
LCS Dup (B216154-BSD1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
alpha-BHC	0.054	0.0050	mg/Kg wet	0.100		53.6	40-140	14.4	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		47.1	40-140	13.7	30	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.3	30-150			
Matrix Spike (B216154-MS2)										
Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/03/18										
alpha-BHC	0.034	0.0058	mg/Kg dry	0.116	ND	29.2	* 30-150			MS-24
alpha-BHC [2C]	0.030	0.0058	mg/Kg dry	0.116	ND	25.6	* 30-150			MS-07A
Surrogate: Decachlorobiphenyl	0.218		mg/Kg dry	0.232		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.232		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg dry	0.232		46.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.103		mg/Kg dry	0.232		44.2	30-150			
Matrix Spike Dup (B216154-MSD2)										
Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/03/18										
alpha-BHC	0.035	0.0057	mg/Kg dry	0.115	ND	30.8	30-150	4.35	30	
alpha-BHC [2C]	0.031	0.0057	mg/Kg dry	0.115	ND	26.7	* 30-150	3.15	30	MS-07A
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.230		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg dry	0.230		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.0946		mg/Kg dry	0.230		41.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0909		mg/Kg dry	0.230		39.6	30-150			

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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 B216181 - SW-846 3050B										
Blank (B216181-BLK1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216181-BS1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	135	1.0	mg/Kg wet	136		99.3	82.4-117.6			
LCS Dup (B216181-BSD1)					Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	138	1.0	mg/Kg wet	136		102	82.4-117.6	2.26	30	
Matrix Spike (B216181-MS2)					Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	20.8	0.40	mg/Kg dry	19.8	2.85	90.8	75-125			
Matrix Spike Dup (B216181-MSD2)					Source: 18K0024-03 Prepared: 11/01/18 Analyzed: 11/02/18					
Chromium	22.0	0.40	mg/Kg dry	20.1	2.85	95.1	75-125	5.62	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 B216207 - % Solids

Duplicate (B216207-DUP1)

Source: 18K0024-03

Prepared & Analyzed: 11/01/18

% Solids	83.7		% Wt		83.7			0.00	20	
----------	------	--	------	--	------	--	--	------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S029015-PEM1 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.93
Endrin [1] 2.65

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.12
Endrin [2] 3.55

BREAKDOWN REPORT

Lab Sample ID: S029015-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.40
Endrin [1] 2.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.96
Endrin [2] 2.37

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.31
Endrin [1] 4.21

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BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.84
Endrin [2] 4.36

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 3.40

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 3.46

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM3 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.94
Endrin [1] 3.13

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.35
Endrin [2] 3.21

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216154-BS1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.079	5.049	5.109	0.046	
	2	4.917	4.888	4.948	0.041	13.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216154-BSD1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.049	5.109	0.054	
	2	4.917	4.888	4.948	0.047	13.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B216154-MS2 Date(s) Analyzed 11/03/2018 11/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.048	5.108	0.034	
	2	4.917	4.887	4.947	0.030	12.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B216154-MSD2 Date(s) Analyzed 11/03/2018 11/03/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.078	5.048	5.108	0.035	
	2	4.917	4.887	4.947	0.031	12.1

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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.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
S-13	Surrogate recovery is outside of control limits on both columns.
	Data validation is not affected since all results are "not detected" and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Soil
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ethan Bradt

Requested Turnaround Time
7-Day 10-Day
Due Date:
Rush-Approval Required
1-Day 3-Day
2-Day 4-Day
Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8081 - Alpha-BHC Only	8260 - Xylenes Only + total Xylene	8270 PAH*	Chromium 6010
01	OU2-Soil-141-Bottom	10/31/2018 0:00	1031/2018 12:48pm		X	S	L	X	X	X	X
02	OU2-Soil-156-Sidewall	10/31/2018 0:00	1031/2018 12:51pm		X	S	L	X	X	X	X
03	OU2-Soil-157-Sidewall	10/31/2018 0:00	1031/2018 12:45pm		X	S	L	X	X	X	X
04	OU2-Soil-157-Sidewall (MS)	10/31/2018 0:00	1031/2018 12:45pm		X	S	L	X	X	X	X
05	OU2-Soil-157-Sidewall (MSD)	10/31/2018 0:00	1031/2018 12:45pm		X	S	L	X	X	X	X
06	DUP-1	n/a	n/a		X	S	L	X	X	X	X

of Containers
² Preservation Code
³ Container Code
Dissolved Metals Samples
 Field Filtered
 Lab to Filter
Orthophosphate Samples
 Field Filtered
 Lab to Filter

1 Matrix Codes:
GW = Ground Water
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: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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) [Signature] Date/Time: 10/31/18 3:05pm
Received by: (signature) [Signature] Date/Time: 11-1-18 9:42
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____

Program & Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
Other: _____

Deliverables
 Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD
Other: _____

Project Entity
 Government Municipality MWRA WRTA
 Federal 21 J School
 City Brownfield MBTA
Other: _____

PCB ONLY
 Soxhlet
 Non Soxhlet



812408468440



Delivered
Thursday 11/01/2018 at 9:42 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
HAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
812408468440

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/01/2018 by 10:30 am

SHIP DATE
 Wed 10/31/2018

ACTUAL DELIVERY
Thu 11/01/2018 9:42 am

Travel History

Local Scan Time

Thursday, 11/01/2018

9:42 am	MA	Delivered
8:02 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:51 am	WINDSOR LOCKS, CT	At local FedEx facility
7:07 am	EAST GRANBY, CT	At destination sort facility
5:33 am	INDIANAPOLIS, IN	Departed FedEx location
12:03 am	INDIANAPOLIS, IN	Arrived at FedEx location

Wednesday, 10/31/2018

6:23 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PB Date 11-1-18 Time 9:42

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 # 557 Actual Temp - 3.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? F Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? F

Who was notified? _____
Who was notified? MARK / James
Who was notified? _____

MS/MSD? T
Is splitting samples required? F
On COC? F Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>6</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>12</u>	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:

November 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0142

Enclosed are results of analyses for samples received by the laboratory on November 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0142

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-118-Sidewall	18K0142-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-119-Sidewall	18K0142-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-42-Bottom	18K0142-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-120-Sidewall	18K0142-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-121-Sidewall	18K0142-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-43-Bottom	18K0142-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-40A-Bottom	18K0142-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-2	18K0142-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-155A-bottom	18K0142-09	Soil		SM 2540G SW-846 8081B SW-846 8270D	
OU2-Soil-158-Sidewall	18K0142-10	Soil		SM 2540G SW-846 8081B SW-846 8270D	
OU2-Soil-159-Sidewall	18K0142-11	Soil		SM 2540G SW-846 8081B SW-846 8270D	

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

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0142

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-155A-Sidewall	18K0142-12	Soil		SM 2540G SW-846 8081B SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-118-Sidewall

Sample ID: 18K0142-01

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:07:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
Ethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
Toluene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
Xylenes (total)	ND	0.0051		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:16	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					11/5/18	7:16	
Toluene-d8		98.7	70-130					11/5/18	7:16	
4-Bromofluorobenzene		99.2	70-130					11/5/18	7:16	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-118-Sidewall

Sample ID: 18K0142-01

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:07:00AM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Dibenz(a,h)anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:19	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.6	30-130						11/5/18 12:19	
2-Fluorobiphenyl		49.7	30-130						11/5/18 12:19	
p-Terphenyl-d14		65.5	30-130						11/5/18 12:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-118-Sidewall

Sample ID: 18K0142-01

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:07:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:08	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:08	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:08	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:08	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.1		30-150						11/5/18 14:08	
Decachlorobiphenyl [2]	73.7		30-150						11/5/18 14:08	
Tetrachloro-m-xylene [1]	83.4		30-150						11/5/18 14:08	
Tetrachloro-m-xylene [2]	71.4		30-150						11/5/18 14:08	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-118-Sidewall

Sample ID: 18K0142-01

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:07:00AM

Conventional 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	11/5/18	11/6/18 9:43	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-119-Sidewall

Sample ID: 18K0142-02

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:15:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0012	0.00042	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
Ethylbenzene	ND	0.0012	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
Isopropylbenzene (Cumene)	ND	0.0012	0.00042	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
Toluene	ND	0.0012	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
1,2,4-Trimethylbenzene	ND	0.0012	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
m+p Xylene	ND	0.0024	0.0010	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
o-Xylene	ND	0.0012	0.00042	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
Xylenes (total)	ND	0.0036		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 7:43	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		111	70-130					11/5/18	7:43	
Toluene-d8		98.4	70-130					11/5/18	7:43	
4-Bromofluorobenzene		98.7	70-130					11/5/18	7:43	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-119-Sidewall

Sample ID: 18K0142-02

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:15:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.063	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Anthracene	0.14	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Benzo(a)anthracene	0.095	0.20	0.052	mg/Kg dry	1	J	SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Fluoranthene	0.52	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Fluorene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Phenanthrene	0.60	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Pyrene	0.93	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 12:48	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	55.1		30-130				11/5/18 12:48			
2-Fluorobiphenyl	46.6		30-130				11/5/18 12:48			
p-Terphenyl-d14	60.9		30-130				11/5/18 12:48			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-119-Sidewall

Sample ID: 18K0142-02

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:15:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:41	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:41	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:41	TG
Endosulfan II [1]	ND	0.0092	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 14:41	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.1		30-150				11/5/18 14:41			
Decachlorobiphenyl [2]	64.4		30-150				11/5/18 14:41			
Tetrachloro-m-xylene [1]	68.9		30-150				11/5/18 14:41			
Tetrachloro-m-xylene [2]	58.8		30-150				11/5/18 14:41			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-119-Sidewall

Sample ID: 18K0142-02

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:15:00AM

Conventional 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	11/5/18	11/6/18 9:43	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-42-Bottom

Sample ID: 18K0142-03

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:11:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:05	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					11/5/18	9:05	
Toluene-d8		97.2	70-130					11/5/18	9:05	
4-Bromofluorobenzene		101	70-130					11/5/18	9:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-42-Bottom

Sample ID: 18K0142-03

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:11:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:15	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.1	30-130						11/5/18 13:15	
2-Fluorobiphenyl		54.0	30-130						11/5/18 13:15	
p-Terphenyl-d14		65.5	30-130						11/5/18 13:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-42-Bottom

Sample ID: 18K0142-03

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:11:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:08	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:08	TG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:08	TG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:08	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	60.4		30-150						11/5/18 15:08	
Decachlorobiphenyl [2]	57.9		30-150						11/5/18 15:08	
Tetrachloro-m-xylene [1]	63.0		30-150						11/5/18 15:08	
Tetrachloro-m-xylene [2]	53.1		30-150						11/5/18 15:08	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-42-Bottom

Sample ID: 18K0142-03

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:11:00AM

Conventional 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	11/5/18	11/6/18 9:43	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-120-Sidewall

Sample ID: 18K0142-04

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:20:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
Toluene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
Xylenes (total)	ND	0.0051		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 9:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						11/5/18 9:32	
Toluene-d8		95.2	70-130						11/5/18 9:32	
4-Bromofluorobenzene		99.8	70-130						11/5/18 9:32	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-120-Sidewall

Sample ID: 18K0142-04

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:20:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 13:42	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.9	30-130						11/5/18 13:42	
2-Fluorobiphenyl		52.1	30-130						11/5/18 13:42	
p-Terphenyl-d14		62.9	30-130						11/5/18 13:42	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-120-Sidewall

Sample ID: 18K0142-04

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:20:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:35	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:35	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:35	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 15:35	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.5		30-150				11/5/18 15:35			
Decachlorobiphenyl [2]	72.3		30-150				11/5/18 15:35			
Tetrachloro-m-xylene [1]	76.8		30-150				11/5/18 15:35			
Tetrachloro-m-xylene [2]	65.0		30-150				11/5/18 15:35			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-120-Sidewall

Sample ID: 18K0142-04

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:20:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	11/5/18	11/6/18 9:43	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-121-Sidewall

Sample ID: 18K0142-05

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:00	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					11/5/18	10:00	
Toluene-d8		98.3	70-130					11/5/18	10:00	
4-Bromofluorobenzene		98.0	70-130					11/5/18	10:00	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-121-Sidewall

Sample ID: 18K0142-05

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Anthracene	0.098	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Fluoranthene	0.31	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Phenanthrene	0.36	0.20	0.11	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Pyrene	0.50	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:08	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.0	30-130						11/5/18 14:08	
2-Fluorobiphenyl		50.0	30-130						11/5/18 14:08	
p-Terphenyl-d14		61.0	30-130						11/5/18 14:08	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-121-Sidewall

Sample ID: 18K0142-05

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:02	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:02	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:02	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:02	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	63.0		30-150				11/5/18 16:02			
Decachlorobiphenyl [2]	62.3		30-150				11/5/18 16:02			
Tetrachloro-m-xylene [1]	68.1		30-150				11/5/18 16:02			
Tetrachloro-m-xylene [2]	55.1		30-150				11/5/18 16:02			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-121-Sidewall

Sample ID: 18K0142-05

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Conventional 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	11/5/18	11/6/18 9:43	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-43-Bottom

Sample ID: 18K0142-06

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:24:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
Ethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
Toluene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
o-Xylene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
Xylenes (total)	ND	0.0049		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:27	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130						11/5/18 10:27	
Toluene-d8		96.6	70-130						11/5/18 10:27	
4-Bromofluorobenzene		100	70-130						11/5/18 10:27	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-43-Bottom

Sample ID: 18K0142-06

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:24:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 14:36	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		71.1	30-130						11/5/18 14:36	
2-Fluorobiphenyl		60.7	30-130						11/5/18 14:36	
p-Terphenyl-d14		77.5	30-130						11/5/18 14:36	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-43-Bottom

Sample ID: 18K0142-06

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:24:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:29	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:29	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:29	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:29	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.2		30-150				11/5/18 16:29			
Decachlorobiphenyl [2]	80.0		30-150				11/5/18 16:29			
Tetrachloro-m-xylene [1]	87.0		30-150				11/5/18 16:29			
Tetrachloro-m-xylene [2]	70.4		30-150				11/5/18 16:29			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-43-Bottom

Sample ID: 18K0142-06

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:24:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-40A-Bottom

Sample ID: 18K0142-07

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:46:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 10:54	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						11/5/18 10:54	
Toluene-d8		96.6	70-130						11/5/18 10:54	
4-Bromofluorobenzene		101	70-130						11/5/18 10:54	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-40A-Bottom

Sample ID: 18K0142-07

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:46:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:27	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.1	30-130						11/5/18 16:27	
2-Fluorobiphenyl		45.4	30-130						11/5/18 16:27	
p-Terphenyl-d14		60.1	30-130						11/5/18 16:27	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-40A-Bottom

Sample ID: 18K0142-07

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:46:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:56	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:56	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:56	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 16:56	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.0		30-150						11/5/18 16:56	
Decachlorobiphenyl [2]	67.2		30-150						11/5/18 16:56	
Tetrachloro-m-xylene [1]	72.9		30-150						11/5/18 16:56	
Tetrachloro-m-xylene [2]	62.9		30-150						11/5/18 16:56	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-SED-40A-Bottom

Sample ID: 18K0142-07

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:46:00AM

Conventional 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	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: DUP-2

Sampled: 11/2/2018 00:00

Sample ID: 18K0142-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
Toluene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
Xylenes (total)	ND	0.0050		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:21	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130					11/5/18	11:21	
Toluene-d8		95.8	70-130					11/5/18	11:21	
4-Bromofluorobenzene		99.0	70-130					11/5/18	11:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: DUP-2

Sampled: 11/2/2018 00:00

Sample ID: 18K0142-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 15:03	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		58.8	30-130						11/5/18 15:03	
2-Fluorobiphenyl		49.3	30-130						11/5/18 15:03	
p-Terphenyl-d14		63.8	30-130						11/5/18 15:03	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: DUP-2

Sampled: 11/2/2018 00:00

Sample ID: 18K0142-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:24	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:24	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:24	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.5		30-150						11/5/18 17:24	
Decachlorobiphenyl [2]	69.0		30-150						11/5/18 17:24	
Tetrachloro-m-xylene [1]	75.0		30-150						11/5/18 17:24	
Tetrachloro-m-xylene [2]	67.0		30-150						11/5/18 17:24	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: DUP-2

Sampled: 11/2/2018 00:00

Sample ID: 18K0142-08

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	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sample ID: 18K0142-09

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 16:55	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.8	30-130						11/5/18 16:55	
2-Fluorobiphenyl		45.6	30-130						11/5/18 16:55	
p-Terphenyl-d14		58.8	30-130						11/5/18 16:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sample ID: 18K0142-09

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:51	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:51	TG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:51	TG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 17:51	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.0		30-150						11/5/18 17:51	
Decachlorobiphenyl [2]	73.7		30-150						11/5/18 17:51	
Tetrachloro-m-xylene [1]	79.9		30-150						11/5/18 17:51	
Tetrachloro-m-xylene [2]	71.2		30-150						11/5/18 17:51	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sample ID: 18K0142-09

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:28:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	11/5/18	11/6/18 9:57	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sample ID: 18K0142-10

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:32:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Phenanthrene	0.21	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:23	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		48.5	30-130						11/5/18 17:23	
2-Fluorobiphenyl		46.9	30-130						11/5/18 17:23	
p-Terphenyl-d14		62.8	30-130						11/5/18 17:23	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sample ID: 18K0142-10

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:32:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:18	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:18	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:18	TG
Endosulfan II [1]	ND	0.0092	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:18	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.2		30-150						11/5/18 18:18	
Decachlorobiphenyl [2]	69.0		30-150						11/5/18 18:18	
Tetrachloro-m-xylene [1]	76.4		30-150						11/5/18 18:18	
Tetrachloro-m-xylene [2]	63.1		30-150						11/5/18 18:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sample ID: 18K0142-10

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:32:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	11/5/18	11/6/18 9:57	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sample ID: 18K0142-11

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:36:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 17:52	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		40.0	30-130						11/5/18 17:52	
2-Fluorobiphenyl		39.5	30-130						11/5/18 17:52	
p-Terphenyl-d14		57.4	30-130						11/5/18 17:52	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sample ID: 18K0142-11

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:36:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:46	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:46	TG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:46	TG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 18:46	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.5		30-150						11/5/18 18:46	
Decachlorobiphenyl [2]	75.7		30-150						11/5/18 18:46	
Tetrachloro-m-xylene [1]	85.0		30-150						11/5/18 18:46	
Tetrachloro-m-xylene [2]	77.8		30-150						11/5/18 18:46	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sample ID: 18K0142-11

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:36:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	11/5/18	11/6/18 9:57	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sample ID: 18K0142-12

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:42:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Anthracene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Benzo(a)pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Benzo(g,h,i)perylene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Benzo(k)fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Chrysene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Fluoranthene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Fluorene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Naphthalene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Pyrene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	11/3/18	11/5/18 18:21	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.4	30-130						11/5/18 18:21	
2-Fluorobiphenyl		44.2	30-130						11/5/18 18:21	
p-Terphenyl-d14		52.3	30-130						11/5/18 18:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sample ID: 18K0142-12

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:42:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 19:13	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 19:13	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 19:13	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	11/3/18	11/5/18 19:13	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	63.9		30-150						11/5/18 19:13	
Decachlorobiphenyl [2]	60.7		30-150						11/5/18 19:13	
Tetrachloro-m-xylene [1]	65.9		30-150						11/5/18 19:13	
Tetrachloro-m-xylene [2]	58.1		30-150						11/5/18 19:13	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0142

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sample ID: 18K0142-12

Start Date/Time: 11/2/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/2/2018 11:42:00AM

Conventional 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	11/5/18	11/6/18 9:57	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0142-01 [OU2-SED-118-Sidewall]	B216430	11/05/18
18K0142-02 [OU2-SED-119-Sidewall]	B216430	11/05/18
18K0142-03 [OU2-SED-42-Bottom]	B216430	11/05/18
18K0142-04 [OU2-SED-120-Sidewall]	B216430	11/05/18
18K0142-05 [OU2-SED-121-Sidewall]	B216430	11/05/18
18K0142-06 [OU2-SED-43-Bottom]	B216430	11/05/18
18K0142-07 [OU2-SED-40A-Bottom]	B216430	11/05/18
18K0142-08 [DUP-2]	B216430	11/05/18
18K0142-09 [OU2-Soil-155A-bottom]	B216430	11/05/18
18K0142-10 [OU2-Soil-158-Sidewall]	B216430	11/05/18
18K0142-11 [OU2-Soil-159-Sidewall]	B216430	11/05/18
18K0142-12 [OU2-Soil-155A-Sidewall]	B216430	11/05/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0142-01 [OU2-SED-118-Sidewall]	B216340	10.2	10.0	11/03/18
18K0142-02 [OU2-SED-119-Sidewall]	B216340	10.1	10.0	11/03/18
18K0142-03 [OU2-SED-42-Bottom]	B216340	10.3	10.0	11/03/18
18K0142-04 [OU2-SED-120-Sidewall]	B216340	10.0	10.0	11/03/18
18K0142-05 [OU2-SED-121-Sidewall]	B216340	10.0	10.0	11/03/18
18K0142-06 [OU2-SED-43-Bottom]	B216340	10.0	10.0	11/03/18
18K0142-07 [OU2-SED-40A-Bottom]	B216340	10.0	10.0	11/03/18
18K0142-08 [DUP-2]	B216340	10.0	10.0	11/03/18
18K0142-09 [OU2-Soil-155A-bottom]	B216340	10.3	10.0	11/03/18
18K0142-10 [OU2-Soil-158-Sidewall]	B216340	10.2	10.0	11/03/18
18K0142-11 [OU2-Soil-159-Sidewall]	B216340	10.2	10.0	11/03/18
18K0142-12 [OU2-Soil-155A-Sidewall]	B216340	10.1	10.0	11/03/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0142-01 [OU2-SED-118-Sidewall]	B216393	7.18	10.0	11/05/18
18K0142-02 [OU2-SED-119-Sidewall]	B216393	9.70	10.0	11/05/18
18K0142-03 [OU2-SED-42-Bottom]	B216393	8.22	10.0	11/05/18
18K0142-04 [OU2-SED-120-Sidewall]	B216393	7.04	10.0	11/05/18
18K0142-05 [OU2-SED-121-Sidewall]	B216393	8.62	10.0	11/05/18
18K0142-06 [OU2-SED-43-Bottom]	B216393	7.12	10.0	11/05/18
18K0142-07 [OU2-SED-40A-Bottom]	B216393	8.52	10.0	11/05/18
18K0142-08 [DUP-2]	B216393	7.13	10.0	11/05/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0142-01 [OU2-SED-118-Sidewall]	B216342	30.3	1.00	11/03/18
18K0142-02 [OU2-SED-119-Sidewall]	B216342	30.2	1.00	11/03/18
18K0142-03 [OU2-SED-42-Bottom]	B216342	30.1	1.00	11/03/18
18K0142-04 [OU2-SED-120-Sidewall]	B216342	30.0	1.00	11/03/18
18K0142-05 [OU2-SED-121-Sidewall]	B216342	30.0	1.00	11/03/18
18K0142-06 [OU2-SED-43-Bottom]	B216342	30.0	1.00	11/03/18
18K0142-07 [OU2-SED-40A-Bottom]	B216342	30.0	1.00	11/03/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0142-08 [DUP-2]	B216342	30.0	1.00	11/03/18
18K0142-09 [OU2-Soil-155A-bottom]	B216342	30.3	1.00	11/03/18
18K0142-10 [OU2-Soil-158-Sidewall]	B216342	30.2	1.00	11/03/18
18K0142-11 [OU2-Soil-159-Sidewall]	B216342	30.3	1.00	11/03/18
18K0142-12 [OU2-Soil-155A-Sidewall]	B216342	30.2	1.00	11/03/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216393 - SW-846 5035										
Blank (B216393-BLK1)										
Prepared & Analyzed: 11/05/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS (B216393-BS1)										
Prepared & Analyzed: 11/05/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
Toluene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.6	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0530		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0482		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B216393-BSD1)										
Prepared & Analyzed: 11/05/18										
Benzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	3.07	25	
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	6.40	25	
Isopropylbenzene (Cumene)	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	2.81	25	
Toluene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	1.42	25	
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	5.47	25	
m+p Xylene	0.0363	0.0040	mg/Kg wet	0.0400		90.8	70-130	6.19	25	
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130	2.11	25	
Surrogate: 1,2-Dichloroethane-d4	0.0521		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			
Matrix Spike (B216393-MS1)										
Source: 18K0142-01 Prepared & Analyzed: 11/05/18										
Benzene	0.0167	0.0017	mg/Kg dry	0.0169	ND	98.6	70-130			
Ethylbenzene	0.0156	0.0017	mg/Kg dry	0.0169	ND	92.4	70-130			
Isopropylbenzene (Cumene)	0.0168	0.0017	mg/Kg dry	0.0169	ND	99.5	70-130			
Toluene	0.0157	0.0017	mg/Kg dry	0.0169	ND	92.5	70-130			
1,2,4-Trimethylbenzene	0.0153	0.0017	mg/Kg dry	0.0169	ND	90.3	70-130			
m+p Xylene	0.0312	0.0034	mg/Kg dry	0.0338	ND	92.3	70-130			
o-Xylene	0.0156	0.0017	mg/Kg dry	0.0169	ND	92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0449		mg/Kg dry	0.0423		106	70-130			
Surrogate: Toluene-d8	0.0410		mg/Kg dry	0.0423		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0415		mg/Kg dry	0.0423		98.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216393 - SW-846 5035

Matrix Spike Dup (B216393-MSD1)

Source: 18K0142-01

Prepared & Analyzed: 11/05/18

Benzene	0.0150	0.0017	mg/Kg dry	0.0169	ND	88.8	70-130	10.5	30	
Ethylbenzene	0.0148	0.0017	mg/Kg dry	0.0169	ND	87.3	70-130	5.68	30	
Isopropylbenzene (Cumene)	0.0158	0.0017	mg/Kg dry	0.0169	ND	93.5	70-130	6.22	30	
Toluene	0.0142	0.0017	mg/Kg dry	0.0169	ND	84.2	70-130	9.39	30	
1,2,4-Trimethylbenzene	0.0140	0.0017	mg/Kg dry	0.0169	ND	83.0	70-130	8.42	30	
m+p Xylene	0.0290	0.0034	mg/Kg dry	0.0338	ND	85.6	70-130	7.53	30	
o-Xylene	0.0146	0.0017	mg/Kg dry	0.0169	ND	86.4	70-130	6.28	30	
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg dry	0.0423		108	70-130			
Surrogate: Toluene-d8	0.0410		mg/Kg dry	0.0423		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0428		mg/Kg dry	0.0423		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216342 - SW-846 3546										
Blank (B216342-BLK1)										
Prepared: 11/03/18 Analyzed: 11/05/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.13		mg/Kg wet	3.33		64.0	30-130			
Surrogate: 2-Fluorobiphenyl	1.77		mg/Kg wet	3.33		53.1	30-130			
Surrogate: p-Terphenyl-d14	2.21		mg/Kg wet	3.33		66.4	30-130			
LCS (B216342-BS1)										
Prepared: 11/03/18 Analyzed: 11/05/18										
Acenaphthene	0.927	0.17	mg/Kg wet	1.67		55.6	40-140			
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
Anthracene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140			
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Benzo(b)fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
Benzo(k)fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Chrysene	0.947	0.17	mg/Kg wet	1.67		56.8	40-140			
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Fluoranthene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140			
Fluorene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Indeno(1,2,3-cd)pyrene	1.36	0.17	mg/Kg wet	1.67		81.8	40-140			
2-Methylnaphthalene	0.957	0.17	mg/Kg wet	1.67		57.4	40-140			
Naphthalene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140			
Phenanthrene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	2.12		mg/Kg wet	3.33		63.5	30-130			
Surrogate: 2-Fluorobiphenyl	1.79		mg/Kg wet	3.33		53.6	30-130			
Surrogate: p-Terphenyl-d14	2.23		mg/Kg wet	3.33		66.8	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216342 - SW-846 3546

LCS Dup (B216342-BSD1)

Prepared: 11/03/18 Analyzed: 11/05/18

Acenaphthene	1.07	0.17	mg/Kg wet	1.67		63.9	40-140	13.9	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	11.4	30	
Anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	9.81	30	
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	9.87	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	11.5	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	10.3	30	
Benzo(g,h,i)perylene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140	10.2	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.3	40-140	9.28	30	
Chrysene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	8.40	30	
Dibenz(a,h)anthracene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	10.6	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	11.3	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	13.9	30	
Indeno(1,2,3-cd)pyrene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140	8.21	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	10.2	30	
Naphthalene	0.925	0.17	mg/Kg wet	1.67		55.5	40-140	3.78	30	
Phenanthrene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	9.99	30	
Pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	10.6	30	
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.01		mg/Kg wet	3.33		60.3	30-130			
Surrogate: p-Terphenyl-d14	2.44		mg/Kg wet	3.33		73.3	30-130			

Matrix Spike (B216342-MS1)

Source: 18K0142-01

Prepared: 11/03/18 Analyzed: 11/05/18

Acenaphthene	0.976	0.21	mg/Kg dry	2.02	ND	48.2	40-140			
Acenaphthylene	1.05	0.21	mg/Kg dry	2.02	ND	51.7	40-140			
Anthracene	0.996	0.21	mg/Kg dry	2.02	ND	49.2	40-140			
Benzo(a)anthracene	1.02	0.21	mg/Kg dry	2.02	ND	50.2	40-140			
Benzo(a)pyrene	1.03	0.21	mg/Kg dry	2.02	ND	50.6	40-140			
Benzo(b)fluoranthene	0.966	0.21	mg/Kg dry	2.02	ND	47.7	40-140			
Benzo(g,h,i)perylene	1.03	0.21	mg/Kg dry	2.02	ND	50.9	40-140			
Benzo(k)fluoranthene	0.956	0.21	mg/Kg dry	2.02	ND	47.2	40-140			
Chrysene	0.910	0.21	mg/Kg dry	2.02	ND	44.9	40-140			
Dibenz(a,h)anthracene	0.978	0.21	mg/Kg dry	2.02	ND	48.3	40-140			
Fluoranthene	1.02	0.21	mg/Kg dry	2.02	ND	50.3	40-140			
Fluorene	1.09	0.21	mg/Kg dry	2.02	ND	53.8	40-140			
Indeno(1,2,3-cd)pyrene	0.987	0.21	mg/Kg dry	2.02	ND	48.7	40-140			
2-Methylnaphthalene	0.943	0.21	mg/Kg dry	2.02	ND	46.6	40-140			
Naphthalene	0.890	0.21	mg/Kg dry	2.02	ND	44.0	40-140			
Phenanthrene	0.990	0.21	mg/Kg dry	2.02	ND	48.9	40-140			
Pyrene	1.04	0.21	mg/Kg dry	2.02	ND	51.4	40-140			
Surrogate: Nitrobenzene-d5	2.04		mg/Kg dry	4.05		50.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.84		mg/Kg dry	4.05		45.5	30-130			
Surrogate: p-Terphenyl-d14	2.16		mg/Kg dry	4.05		53.2	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 B216342 - SW-846 3546										
Matrix Spike Dup (B216342-MSD1)	Source: 18K0142-01			Prepared: 11/03/18 Analyzed: 11/05/18						
Acenaphthene	1.11	0.21	mg/Kg dry	2.02	ND	55.0	40-140	13.1	30	
Acenaphthylene	1.20	0.21	mg/Kg dry	2.02	ND	59.4	40-140	13.8	30	
Anthracene	1.12	0.21	mg/Kg dry	2.02	ND	55.3	40-140	11.8	30	
Benzo(a)anthracene	1.16	0.21	mg/Kg dry	2.02	ND	57.1	40-140	12.9	30	
Benzo(a)pyrene	1.18	0.21	mg/Kg dry	2.02	ND	58.1	40-140	13.8	30	
Benzo(b)fluoranthene	1.11	0.21	mg/Kg dry	2.02	ND	54.7	40-140	13.7	30	
Benzo(g,h,i)perylene	1.12	0.21	mg/Kg dry	2.02	ND	55.1	40-140	7.96	30	
Benzo(k)fluoranthene	1.16	0.21	mg/Kg dry	2.02	ND	57.3	40-140	19.3	30	
Chrysene	1.06	0.21	mg/Kg dry	2.02	ND	52.6	40-140	15.7	30	
Dibenz(a,h)anthracene	1.14	0.21	mg/Kg dry	2.02	ND	56.4	40-140	15.5	30	
Fluoranthene	1.13	0.21	mg/Kg dry	2.02	ND	55.6	40-140	9.93	30	
Fluorene	1.23	0.21	mg/Kg dry	2.02	ND	60.6	40-140	11.9	30	
Indeno(1,2,3-cd)pyrene	1.21	0.21	mg/Kg dry	2.02	ND	60.0	40-140	20.7	30	
2-Methylnaphthalene	1.15	0.21	mg/Kg dry	2.02	ND	56.6	40-140	19.5	30	
Naphthalene	1.05	0.21	mg/Kg dry	2.02	ND	51.8	40-140	16.4	30	
Phenanthrene	1.13	0.21	mg/Kg dry	2.02	ND	55.6	40-140	12.8	30	
Pyrene	1.24	0.21	mg/Kg dry	2.02	ND	61.2	40-140	17.3	30	
Surrogate: Nitrobenzene-d5	2.43		mg/Kg dry	4.05		60.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.15		mg/Kg dry	4.05		53.0	30-130			
Surrogate: p-Terphenyl-d14	2.65		mg/Kg dry	4.05		65.4	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216340 - SW-846 3546										
Blank (B216340-BLK1)										
Prepared: 11/03/18 Analyzed: 11/05/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg wet	0.200		71.1	30-150			
LCS (B216340-BS1)										
Prepared: 11/03/18 Analyzed: 11/05/18										
4,4'-DDE	0.090	0.0040	mg/Kg wet	0.100		90.4	40-140			
4,4'-DDE [2C]	0.087	0.0040	mg/Kg wet	0.100		87.1	40-140			
4,4'-DDT	0.089	0.0040	mg/Kg wet	0.100		88.8	40-140			
4,4'-DDT [2C]	0.088	0.0040	mg/Kg wet	0.100		87.6	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140			
Endosulfan I [2C]	0.071	0.0050	mg/Kg wet	0.100		71.2	40-140			
Endosulfan II	0.080	0.0080	mg/Kg wet	0.100		80.4	40-140			
Endosulfan II [2C]	0.079	0.0080	mg/Kg wet	0.100		79.0	40-140			
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
LCS Dup (B216340-BSD1)										
Prepared: 11/03/18 Analyzed: 11/05/18										
4,4'-DDE	0.088	0.0040	mg/Kg wet	0.100		87.8	40-140	2.92	30	
4,4'-DDE [2C]	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140	2.84	30	
4,4'-DDT	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140	3.00	30	
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		84.7	40-140	3.28	30	
Endosulfan I	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	3.54	30	
Endosulfan I [2C]	0.069	0.0050	mg/Kg wet	0.100		69.3	40-140	2.77	30	
Endosulfan II	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	3.20	30	
Endosulfan II [2C]	0.077	0.0080	mg/Kg wet	0.100		76.7	40-140	2.89	30	
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			
Matrix Spike (B216340-MS1)										
Source: 18K0142-01 Prepared: 11/03/18 Analyzed: 11/05/18										
4,4'-DDE	0.097	0.0049	mg/Kg dry	0.121	ND	80.2	30-150			
4,4'-DDE [2C]	0.094	0.0049	mg/Kg dry	0.121	ND	77.2	30-150			
4,4'-DDT	0.096	0.0049	mg/Kg dry	0.121	ND	79.3	30-150			
4,4'-DDT [2C]	0.095	0.0049	mg/Kg dry	0.121	ND	78.1	30-150			
Endosulfan I	0.087	0.0061	mg/Kg dry	0.121	ND	71.5	30-150			
Endosulfan I [2C]	0.078	0.0061	mg/Kg dry	0.121	ND	63.9	30-150			
Endosulfan II	0.087	0.0097	mg/Kg dry	0.121	ND	71.2	30-150			
Endosulfan II [2C]	0.086	0.0097	mg/Kg dry	0.121	ND	70.8	30-150			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg dry	0.243		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg dry	0.243		74.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216340 - SW-846 3546										
Matrix Spike (B216340-MS1)		Source: 18K0142-01			Prepared: 11/03/18 Analyzed: 11/05/18					
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.243		80.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg dry	0.243		69.7	30-150			
Matrix Spike Dup (B216340-MSD1)		Source: 18K0142-01			Prepared: 11/03/18 Analyzed: 11/05/18					
4,4'-DDE	0.10	0.0049	mg/Kg dry	0.121	ND	85.0	30-150	5.83	30	
4,4'-DDE [2C]	0.099	0.0049	mg/Kg dry	0.121	ND	81.4	30-150	5.39	30	
4,4'-DDT	0.10	0.0049	mg/Kg dry	0.121	ND	84.3	30-150	6.15	30	
4,4'-DDT [2C]	0.10	0.0049	mg/Kg dry	0.121	ND	82.5	30-150	5.56	30	
Endosulfan I	0.092	0.0061	mg/Kg dry	0.121	ND	75.9	30-150	5.89	30	
Endosulfan I [2C]	0.081	0.0061	mg/Kg dry	0.121	ND	66.4	30-150	3.86	30	
Endosulfan II	0.092	0.0097	mg/Kg dry	0.121	ND	76.0	30-150	6.56	30	
Endosulfan II [2C]	0.091	0.0097	mg/Kg dry	0.121	ND	75.1	30-150	5.85	30	
Surrogate: Decachlorobiphenyl	0.198		mg/Kg dry	0.243		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg dry	0.243		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.210		mg/Kg dry	0.243		86.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg dry	0.243		72.1	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216430 - % Solids

Duplicate (B216430-DUP3)

Source: 18K0142-01

Prepared: 11/05/18 Analyzed: 11/06/18

% Solids	82.8		% Wt		82.3			0.627	20	
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BREAKDOWN REPORT

Lab Sample ID: S029089-PEM1 **Analyzed:** 11/05/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.67
Endrin [1] 2.54

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.77
Endrin [2] 2.68

BREAKDOWN REPORT

Lab Sample ID: S029089-PEM2 **Analyzed:** 11/05/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.70
Endrin [1] 2.52

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.82
Endrin [2] 2.64

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8081B

Lab Sample ID: B216340-BS1 Date(s) Analyzed 11/05/2018 11/05/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.289	7.261	7.321	0.090	
	2	7.289	7.260	7.320	0.087	3.4
4,4'-DDT	1	7.969	7.941	8.001	0.089	
	2	7.983	7.954	8.014	0.088	1.1
Endosulfan I	1	7.352	7.324	7.384	0.081	
	2	7.213	7.183	7.243	0.071	13.2
Endosulfan II	1	7.893	7.865	7.925	0.080	
	2	7.823	7.795	7.855	0.079	1.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216340-BSD1 Date(s) Analyzed 11/05/2018 11/05/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.289	7.261	7.321	0.088	
	2	7.290	7.260	7.320	0.085	3.5
4,4'-DDT	1	7.969	7.941	8.001	0.086	
	2	7.983	7.954	8.014	0.085	1.2
Endosulfan I	1	7.352	7.324	7.384	0.078	
	2	7.213	7.183	7.243	0.069	12.2
Endosulfan II	1	7.893	7.865	7.925	0.078	
	2	7.824	7.795	7.855	0.077	1.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B216340-MS1 Date(s) Analyzed 11/05/2018 11/05/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.288	7.259	7.319	0.097	
	2	7.290	7.260	7.320	0.094	3.1
4,4'-DDT	1	7.969	7.939	7.999	0.096	
	2	7.983	7.953	8.013	0.095	1.1
Endosulfan I	1	7.351	7.322	7.382	0.087	
	2	7.213	7.183	7.243	0.078	10.9
Endosulfan II	1	7.892	7.863	7.923	0.087	
	2	7.824	7.794	7.854	0.086	1.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B216340-MSD1 Date(s) Analyzed 11/05/2018 11/05/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.289	7.259	7.319	0.10	
	2	7.290	7.260	7.320	0.099	1.0
4,4'-DDT	1	7.968	7.939	7.999	0.10	
	2	7.983	7.953	8.013	0.10	0.0
Endosulfan I	1	7.351	7.322	7.382	0.092	
	2	7.213	7.183	7.243	0.081	12.7
Endosulfan II	1	7.891	7.863	7.923	0.092	
	2	7.824	7.794	7.854	0.091	1.1

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K 0142



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: LAND remediation
 Address: 74 Hudson River Road Waterford, NY

Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: OU 2 Sed
 Project Number:
 Project Manager: Matthew Warren

Con-Test Quote Name/Number:
 Invoice Recipient: mjiw@land-remediation.com
 Sampled By: Ethan Bradt

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 2

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

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

Data Delivery
 Format: PDF EXCEL
 Other:

CLP Like Data Pkg Required:

Email To: mjiw@land-remediation.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-118-Sidewall	11/2/2018 0:00	11/2/2018 11:07		X	S	L
2	OU2-SED-119-Sidewall	11/2/2018 0:00	11/2/2018 11:15		X	S	L
3	OU2-SED-42-Bottom	11/2/2018 0:00	11/2/2018 11:11		X	S	L
4	OU2-SED-120-Sidewall	11/2/2018 0:00	11/2/2018 11:20		X	S	L
5	OU2-SED-121-Sidewall	11/2/2018 0:00	11/2/2018 11:28		X	S	L
6	OU2-SED-43-Bottom	11/2/2018 0:00	11/2/2018 11:24		X	S	L
7	OU2-SED-40A-Bottom	11/2/2018 0:00	11/2/2018 11:46		X	S	L
1	OU2-SED-118-Sidewall (MS)	11/2/2018 0:00	11/2/2018 11:07		X	S	L
1	OU2-SED-118-Sidewall(MSD)	11/2/2018 0:00	11/2/2018 11:07		X	S	L
8	DUP-2	n/a	n/a		X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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) *Ethan Bradt* Date/Time: 11/2/2018 2:30pm
 Received by: (signature) *[Signature]* Date/Time: 11/3/2018 9:15
 Relinquished by: (signature) *[Signature]* Date/Time:
 Relinquished by: (signature) Date/Time:
 Relinquished by: (signature) Date/Time:
 Relinquished by: (signature) Date/Time:

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government Municipality MWRA Other
 Federal City 21 J School WRTA Chromatogram
 City Brownfield MBTA AIHA-LAP, LLC Non Soxhlet

# of Containers	Preservation Code	Container Code	Dissolved Metals Samples	Orthophosphate Samples	Matrix Codes	Preservation Codes	Container Codes	PCB ONLY
			<input type="checkbox"/> Field Filtered	<input type="checkbox"/> Field Filtered	1 GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	1 = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)	A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)	<input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

LAHD remediation

Company Name: LAHD remediation

Address: 74 Hudson River Road Waterford, NY

Phone: NYSDEC Saranac Lake Gas Co.

Project Name: OU_2 Soil

Project Location: Matthew Warren

Project Number: Con-Test Quote Name/Number: miw@land-remediation.com

Project Manager: Invoice Recipient: Ethan Bratt

Con-Test Quote Name/Number: miw@land-remediation.com

Invoice Recipient: Fax To #:

Sampled By:

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

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

Data Delivery
 Format: PDF EXCEL
 Other:

CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
9	OU2-Soil-155A-bottom	11/22/2018 0:00	11/22/2018 11:28	X	S	L	
10	OU2-Soil-158-Sidewall	11/22/2018 0:00	11/22/2018 11:32	X	S	L	
11	OU2-Soil-159-Sidewall	11/22/2018 0:00	11/22/2018 11:36	X	S	L	
12	OU2-Soil-155A-Sidewall	11/22/2018 0:00	11/22/2018 11:42	X	S	L	

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

8081 - Alpha-BHC Only
 8260 - Xylenes Only + total Xylene
 8270 PAH

ANALYSIS REQUESTED

1 Matrix Codes:
 GW = Ground Water
 VW = 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

Deliverables
 Enhanced Data Package
 NYSDEC EquiS EDD
 EquiS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC



813219356051



Delivered
Saturday 11/03/2018 at 9:15 am



DELIVERED

Signed for by: J.PETRADIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219356051

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
For Saturday Delivery, Additional Handling Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/03/2018 by 12:00 pm

SHIP DATE
 Fri 11/02/2018

ACTUAL DELIVERY
Sat 11/03/2018 9:15 am

Travel History

Local Scan Time

Saturday, 11/03/2018

9:15 am	MA	Delivered
8:20 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:42 am	WINDSOR LOCKS, CT	At local FedEx facility
6:46 am	EAST GRANBY, CT	At destination sort facility
3:34 am	MEMPHIS, TN	Departed FedEx location
12:32 am	MEMPHIS, TN	Arrived at FedEx location

Friday, 11/02/2018

6:20 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By RTP Date 11/3/18 Time 9:15

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 # 557 Actual Temp - 5.3
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? Mura

Who was notified? _____

MS/MSD? T

Is splitting samples required? f

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz <u>Amb</u> /Clear
Meoh-	<u>14</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>28</u>	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:

Sample ID: 002-Soil-155A-bottom is labeled as 002-Soil-142-bottom.
Times do match up.

November 8, 2018

Matthew Warren
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 sOIL
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0158

Enclosed are results of analyses for samples received by the laboratory on November 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Matthew Warren

REPORT DATE: 11/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0158

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

PROJECT LOCATION: OU_2 SOIL

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-155A-bottom	18K0158-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-158-Sidewall	18K0158-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-159-Sidewall	18K0158-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-155A-Sidewall	18K0158-04	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****R-05**

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

Analyte & Samples(s) Qualified:**alpha-BHC [2C]**

18K0158-01[OU2-Soil-155A-bottom], 18K0158-02[OU2-Soil-158-Sidewall], 18K0158-03[OU2-Soil-159-Sidewall], 18K0158-04[OU2-Soil-155A-Sidewall], B216413-BLK1, B216413-BS1, B216413-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopycinski
Laboratory Director

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

Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:48	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:48	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 11:48	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	97.7	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 10:53	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		82.6	30-130						11/6/18 10:53	
2-Fluorobiphenyl		62.2	30-130						11/6/18 10:53	
p-Terphenyl-d14		77.8	30-130						11/6/18 10:53	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	11/5/18	11/7/18 23:26	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	60.3		30-150						11/7/18 23:26	
Decachlorobiphenyl [2]	56.6		30-150						11/7/18 23:26	
Tetrachloro-m-xylene [1]	56.3		30-150						11/7/18 23:26	
Tetrachloro-m-xylene [2]	50.3		30-150						11/7/18 23:26	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.2	0.40	0.24	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 15:17	QNW

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-bottom

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:17	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:17	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:17	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	95.2	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:19	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		77.9	30-130						11/6/18 11:19	
2-Fluorobiphenyl		63.3	30-130						11/6/18 11:19	
p-Terphenyl-d14		74.8	30-130						11/6/18 11:19	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	11/5/18	11/7/18 23:53	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.9		30-150						11/7/18 23:53	
Decachlorobiphenyl [2]	68.9		30-150						11/7/18 23:53	
Tetrachloro-m-xylene [1]	68.8		30-150						11/7/18 23:53	
Tetrachloro-m-xylene [2]	55.5		30-150						11/7/18 23:53	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.0	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 15:22	QNW

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-158-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:44	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:44	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 12:44	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	96.0	70-130	
4-Bromofluorobenzene	98.9	70-130	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 11:46	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		82.4	30-130						11/6/18 11:46	
2-Fluorobiphenyl		67.1	30-130						11/6/18 11:46	
p-Terphenyl-d14		79.7	30-130						11/6/18 11:46	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	11/5/18	11/8/18 0:20	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.5		30-150						11/8/18 0:20	
Decachlorobiphenyl [2]	64.2		30-150						11/8/18 0:20	
Tetrachloro-m-xylene [1]	65.0		30-150						11/8/18 0:20	
Tetrachloro-m-xylene [2]	59.3		30-150						11/8/18 0:20	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.7	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 15:27	QNW

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-159-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-03

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	84.2		% Wt	1		SM 2540G	11/5/18	11/6/18 9:44	CJT

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 13:13	MF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 13:13	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	11/5/18	11/5/18 13:13	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	98.2	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	11/5/18	11/6/18 12:12	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		74.1	30-130						11/6/18 12:12	
2-Fluorobiphenyl		59.1	30-130						11/6/18 12:12	
p-Terphenyl-d14		72.1	30-130						11/6/18 12:12	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0054	0.00043	mg/Kg dry	1		SW-846 8081B	11/5/18	11/8/18 0:47	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.8		30-150						11/8/18 0:47	
Decachlorobiphenyl [2]	64.7		30-150						11/8/18 0:47	
Tetrachloro-m-xylene [1]	63.6		30-150						11/8/18 0:47	
Tetrachloro-m-xylene [2]	57.7		30-150						11/8/18 0:47	

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.7	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 15:32	QNW

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Project Location: OU_2 sOIL

Sample Description:

Work Order: 18K0158

Date Received: 11/3/2018

Field Sample #: OU2-Soil-155A-Sidewall

Sampled: 11/3/2018 09:15

Sample ID: 18K0158-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	11/5/18	11/6/18 9:45	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0158-01 [OU2-Soil-155A-bottom]	B216430	11/05/18
18K0158-02 [OU2-Soil-158-Sidewall]	B216430	11/05/18
18K0158-03 [OU2-Soil-159-Sidewall]	B216430	11/05/18
18K0158-04 [OU2-Soil-155A-Sidewall]	B216430	11/05/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0158-01 [OU2-Soil-155A-bottom]	B216395	1.51	50.0	11/05/18
18K0158-02 [OU2-Soil-158-Sidewall]	B216395	1.52	50.0	11/05/18
18K0158-03 [OU2-Soil-159-Sidewall]	B216395	1.52	50.0	11/05/18
18K0158-04 [OU2-Soil-155A-Sidewall]	B216395	1.53	50.0	11/05/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0158-01 [OU2-Soil-155A-bottom]	B216413	10.8	10.0	11/05/18
18K0158-02 [OU2-Soil-158-Sidewall]	B216413	10.7	10.0	11/05/18
18K0158-03 [OU2-Soil-159-Sidewall]	B216413	10.8	10.0	11/05/18
18K0158-04 [OU2-Soil-155A-Sidewall]	B216413	10.6	10.0	11/05/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0158-01 [OU2-Soil-155A-bottom]	B216393	8.39	10.0	11/05/18
18K0158-02 [OU2-Soil-158-Sidewall]	B216393	7.85	10.0	11/05/18
18K0158-03 [OU2-Soil-159-Sidewall]	B216393	8.31	10.0	11/05/18
18K0158-04 [OU2-Soil-155A-Sidewall]	B216393	8.71	10.0	11/05/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0158-01 [OU2-Soil-155A-bottom]	B216411	30.6	1.00	11/05/18
18K0158-02 [OU2-Soil-158-Sidewall]	B216411	30.5	1.00	11/05/18
18K0158-03 [OU2-Soil-159-Sidewall]	B216411	30.2	1.00	11/05/18
18K0158-04 [OU2-Soil-155A-Sidewall]	B216411	30.7	1.00	11/05/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216393 - SW-846 5035										
Blank (B216393-BLK1)										
Prepared & Analyzed: 11/05/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS (B216393-BS1)										
Prepared & Analyzed: 11/05/18										
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.6	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0530		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0482		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B216393-BSD1)										
Prepared & Analyzed: 11/05/18										
m+p Xylene	0.0363	0.0040	mg/Kg wet	0.0400		90.8	70-130	6.19	25	
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130	2.11	25	
Surrogate: 1,2-Dichloroethane-d4	0.0521		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216411 - SW-846 3546

Blank (B216411-BLK1)

Prepared: 11/05/18 Analyzed: 11/06/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		78.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.26		mg/Kg wet	3.33		67.9	30-130			
Surrogate: p-Terphenyl-d14	2.65		mg/Kg wet	3.33		79.6	30-130			

LCS (B216411-BS1)

Prepared: 11/05/18 Analyzed: 11/06/18

Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(b)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140			
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
Surrogate: Nitrobenzene-d5	2.80		mg/Kg wet	3.33		83.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: p-Terphenyl-d14	2.54		mg/Kg wet	3.33		76.2	30-130			

LCS Dup (B216411-BSD1)

Prepared: 11/05/18 Analyzed: 11/06/18

Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	3.12	30	
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	2.30	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	5.05	30	
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140	1.81	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	3.94	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140	1.04	30	
Indeno(1,2,3-cd)pyrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	1.47	30	
Surrogate: Nitrobenzene-d5	2.71		mg/Kg wet	3.33		81.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: p-Terphenyl-d14	2.53		mg/Kg wet	3.33		76.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216413 - SW-846 3546										
Blank (B216413-BLK1)										
Prepared: 11/05/18 Analyzed: 11/07/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							R-05
Surrogate: Decachlorobiphenyl	0.131		mg/Kg wet	0.200		65.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.123		mg/Kg wet	0.200		61.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.106		mg/Kg wet	0.200		53.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.100		mg/Kg wet	0.200		50.2	30-150			
LCS (B216413-BS1)										
Prepared: 11/05/18 Analyzed: 11/07/18										
alpha-BHC	0.054	0.0050	mg/Kg wet	0.100		53.9	40-140			
alpha-BHC [2C]	0.048	0.0050	mg/Kg wet	0.100		47.6	40-140			R-05
Surrogate: Decachlorobiphenyl	0.150		mg/Kg wet	0.200		75.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.139		mg/Kg wet	0.200		69.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0659		mg/Kg wet	0.200		32.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0641		mg/Kg wet	0.200		32.0	30-150			
LCS Dup (B216413-BSD1)										
Prepared: 11/05/18 Analyzed: 11/07/18										
alpha-BHC	0.071	0.0050	mg/Kg wet	0.100		70.8	40-140	27.2	30	
alpha-BHC [2C]	0.065	0.0050	mg/Kg wet	0.100		65.0	40-140	30.9	* 30	R-05
Surrogate: Decachlorobiphenyl	0.166		mg/Kg wet	0.200		83.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.163		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.152		mg/Kg wet	0.200		76.1	30-150			

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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 B216395 - SW-846 3050B										
Blank (B216395-BLK1)										
					Prepared: 11/05/18 Analyzed: 11/06/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216395-BS1)										
					Prepared: 11/05/18 Analyzed: 11/06/18					
Chromium	133	1.0	mg/Kg wet	136		97.9	82.4-117.6			
LCS Dup (B216395-BSD1)										
					Prepared: 11/05/18 Analyzed: 11/06/18					
Chromium	133	0.99	mg/Kg wet	136		97.7	82.4-117.6	0.250	30	

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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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB 18K0158 18K01421B
 con-test ANALYTICAL LABORATORY
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: [Redacted]
 Address: 74 Hudson River Road Waterford, NY
 Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: OU_2 Soil
 Project Number: Matthew Warren
 Project Manager: Matthew Warren
 Con-Test Quote Name/Number: [Redacted]
 Invoice Recipient: [Redacted]
 Sampled By: Ethan Bradt

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc. Code
01	OU2-Soil-155A-bottom	11/2/2018 0:00	11/2/2018 11:28	X	S	L	L
02	OU2-Soil-158-Sidewall	11/2/2018 0:00	11/2/2018 11:32	X	S	L	L
03	OU2-Soil-159-Sidewall	11/2/2018 0:00	11/2/2018 11:36	X	S	L	L
04	OU2-Soil-155A-Sidewall	11/2/2018 0:00	11/2/2018 11:42	X	S	L	L

Requested Turnaround Time: 7-Day 10-Day
 Due Date: [Redacted]
 Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
 Data Delivery: PDF EXCEL
 Other: [Redacted]
 CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #: [Redacted]

ANALYSIS REQUESTED

8260 - Xylenes Only + total Xylene	X	X	X	X	X	X	X
8081 - Alpha-BHC Only	X	X	X	X	X	X	X
8270 PAH*	X	X	X	X	X	X	X
Chromium 6010							

1 Matrix Codes:
 GW = Ground Water
 WW = Wastewater
 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: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

Relinquished by: (signature) [Signature]
 Date/Time: 11/2/18 2:14pm
 Received by: (signature) [Signature]
 Date/Time: 11/3/18 9:15
 Relinquished by: (signature) [Signature]
 Date/Time: [Redacted]
 Received by: (signature) [Signature]
 Date/Time: [Redacted]
 Relinquished by: (signature) [Signature]
 Date/Time: [Redacted]
 Received by: (signature) [Signature]
 Date/Time: [Redacted]

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA School
 MBTA
 WRTA
 Chromatogram
 ALPHA-LAP-LLC

PCB ONLY
 Soxhlet
 Non Soxhlet

11/3/2018

Track your package or shipment with FedEx Tracking



813219356051



Delivered
Saturday 11/03/2018 at 9:15 am



DELIVERED

Signed for by: J.PETRADIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219356051

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
For Saturday Delivery, Additional Handling Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/03/2018 by 12.00 pm

SHIP DATE
 Fri 11/02/2018

ACTUAL DELIVERY
Sat 11/03/2018 9:15 am

Travel History

Local Scan Time

Saturday, 11/03/2018

9:15 am	MA	Delivered
8:20 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:42 am	WINDSOR LOCKS, CT	At local FedEx facility
6:46 am	EAST GRANBY, CT	At destination sort facility
3:34 am	MEMPHIS, TN	Departed FedEx location
12:32 am	MEMPHIS, TN	Arrived at FedEx location

Friday, 11/02/2018

6:20 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PB Date 11.3.18 Time 9:15

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 # 557 Actual Temp - 5.3
 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? Miora
 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? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>4</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>8</u>	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:

Sample "042-Soil-155A-Bottom" is labeled as
 "042-Soil-142-Bottom" was able to match
 by times.

November 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake - OU2 Sediment
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0230

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0230

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

PROJECT LOCATION: Saranac Lake - OU2 Sediment

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-143-Bottom	18K0230-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-3	18K0230-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:**MS-24**

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

1,2,4-Trimethylbenzene
B216578-MSD1

SW-846 8270D

Qualifications:**MS-22**

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

Analyte & Samples(s) Qualified:

Naphthalene
B216546-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: OU2-SED-143-Bottom

Sample ID: 18K0230-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:13	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						11/7/18 7:13	
Toluene-d8		98.2	70-130						11/7/18 7:13	
4-Bromofluorobenzene		100	70-130						11/7/18 7:13	

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: OU2-SED-143-Bottom

Sample ID: 18K0230-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Benzo(a)anthracene	0.066	0.20	0.054	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Benzo(a)pyrene	0.081	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Benzo(b)fluoranthene	0.059	0.20	0.057	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Fluoranthene	0.085	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Pyrene	0.16	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:01	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.2	30-130						11/7/18 11:01	
2-Fluorobiphenyl		52.6	30-130						11/7/18 11:01	
p-Terphenyl-d14		65.0	30-130						11/7/18 11:01	

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: OU2-SED-143-Bottom

Sample ID: 18K0230-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 11:50	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 11:50	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 11:50	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 11:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.8		30-150				11/7/18 11:50			
Decachlorobiphenyl [2]	89.5		30-150				11/7/18 11:50			
Tetrachloro-m-xylene [1]	98.2		30-150				11/7/18 11:50			
Tetrachloro-m-xylene [2]	86.8		30-150				11/7/18 11:50			

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: OU2-SED-143-Bottom

Sample ID: 18K0230-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	11/6/18	11/7/18 0:34	KMG

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: DUP-3

Sampled: 11/5/2018 00:00

Sample ID: 18K0230-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 7:40	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					11/7/18	7:40	
Toluene-d8		97.7	70-130					11/7/18	7:40	
4-Bromofluorobenzene		100	70-130					11/7/18	7:40	

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: DUP-3

Sampled: 11/5/2018 00:00

Sample ID: 18K0230-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Anthracene	0.078	0.20	0.057	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Benzo(a)anthracene	0.21	0.20	0.052	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Benzo(a)pyrene	0.23	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Benzo(b)fluoranthene	0.17	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Benzo(g,h,i)perylene	0.14	0.20	0.087	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Chrysene	0.14	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Fluoranthene	0.35	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Phenanthrene	0.27	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Pyrene	0.59	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:27	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		58.7	30-130						11/7/18 11:27	
2-Fluorobiphenyl		51.4	30-130						11/7/18 11:27	
p-Terphenyl-d14		69.5	30-130						11/7/18 11:27	

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: DUP-3

Sampled: 11/5/2018 00:00

Sample ID: 18K0230-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 12:17	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 12:17	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 12:17	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 12:17	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.2		30-150						11/7/18 12:17	
Decachlorobiphenyl [2]	88.0		30-150						11/7/18 12:17	
Tetrachloro-m-xylene [1]	91.0		30-150						11/7/18 12:17	
Tetrachloro-m-xylene [2]	80.1		30-150						11/7/18 12:17	

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Project Location: Saranac Lake - OU2 Sediment

Sample Description:

Work Order: 18K0230

Date Received: 11/6/2018

Field Sample #: DUP-3

Sampled: 11/5/2018 00:00

Sample ID: 18K0230-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	11/6/18	11/7/18 0:34	KMG

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0230-01 [OU2-SED-143-Bottom]	B216557	11/06/18
18K0230-02 [DUP-3]	B216557	11/06/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0230-01 [OU2-SED-143-Bottom]	B216492	10.6	10.0	11/06/18
18K0230-02 [DUP-3]	B216492	10.0	10.0	11/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0230-01 [OU2-SED-143-Bottom]	B216578	9.10	10.0	11/07/18
18K0230-02 [DUP-3]	B216578	8.87	10.0	11/07/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0230-01 [OU2-SED-143-Bottom]	B216546	30.0	1.00	11/06/18
18K0230-02 [DUP-3]	B216546	30.6	1.00	11/06/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216578 - SW-846 5035										
Blank (B216578-BLK1)										
Prepared & Analyzed: 11/07/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.1	70-130			
LCS (B216578-BS1)										
Prepared & Analyzed: 11/07/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B216578-BSD1)										
Prepared & Analyzed: 11/07/18										
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	1.48	25	
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	0.104	25	
Isopropylbenzene (Cumene)	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	4.93	25	
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	0.315	25	
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	2.49	25	
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.1	70-130	1.58	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	1.23	25	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Matrix Spike (B216578-MS1)										
Source: 18K0230-01 Prepared & Analyzed: 11/07/18										
Benzene	0.0127	0.0013	mg/Kg dry	0.0135	ND	94.5	70-130			
Ethylbenzene	0.0126	0.0013	mg/Kg dry	0.0135	ND	93.1	70-130			
Isopropylbenzene (Cumene)	0.0132	0.0013	mg/Kg dry	0.0135	ND	98.1	70-130			
Toluene	0.0127	0.0013	mg/Kg dry	0.0135	ND	94.2	70-130			
1,2,4-Trimethylbenzene	0.0116	0.0013	mg/Kg dry	0.0135	ND	85.8	70-130			
m+p Xylene	0.0248	0.0027	mg/Kg dry	0.0270	ND	92.1	70-130			
o-Xylene	0.0127	0.0013	mg/Kg dry	0.0135	ND	94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0342		mg/Kg dry	0.0337		101	70-130			
Surrogate: Toluene-d8	0.0332		mg/Kg dry	0.0337		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0341		mg/Kg dry	0.0337		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216578 - SW-846 5035

Matrix Spike Dup (B216578-MSD1)

Source: 18K0230-01

Prepared & Analyzed: 11/07/18

Benzene	0.0113	0.0013	mg/Kg dry	0.0135	ND	83.9	70-130	12.0	30	
Ethylbenzene	0.0104	0.0013	mg/Kg dry	0.0135	ND	77.5	70-130	18.4	30	
Isopropylbenzene (Cumene)	0.0110	0.0013	mg/Kg dry	0.0135	ND	81.4	70-130	18.7	30	
Toluene	0.0114	0.0013	mg/Kg dry	0.0135	ND	84.4	70-130	11.1	30	
1,2,4-Trimethylbenzene	0.00915	0.0013	mg/Kg dry	0.0135	ND	67.9 *	70-130	23.4	30	MS-24
m+p Xylene	0.0204	0.0027	mg/Kg dry	0.0269	ND	75.8	70-130	19.5	30	
o-Xylene	0.0106	0.0013	mg/Kg dry	0.0135	ND	78.8	70-130	18.0	30	
Surrogate: 1,2-Dichloroethane-d4	0.0340		mg/Kg dry	0.0337		101	70-130			
Surrogate: Toluene-d8	0.0331		mg/Kg dry	0.0337		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0328		mg/Kg dry	0.0337		97.4	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216546 - SW-846 3546										
Blank (B216546-BLK1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.65		mg/Kg wet	3.33		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.30		mg/Kg wet	3.33		68.9	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.6	30-130			
LCS (B216546-BS1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
Acenaphthene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140			
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Fluorene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140			
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
2-Methylnaphthalene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Naphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Pyrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.33		71.2	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		80.9	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 B216546 - SW-846 3546										
LCS Dup (B216546-BSD1)										
					Prepared: 11/06/18 Analyzed: 11/07/18					
Acenaphthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	1.57	30	
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	0.410	30	
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	4.13	30	
Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	6.12	30	
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	9.10	30	
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	9.55	30	
Benzo(g,h,i)perylene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140	6.92	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	12.0	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	8.62	30	
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	5.96	30	
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	2.90	30	
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140	1.36	30	
Indeno(1,2,3-cd)pyrene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140	10.5	30	
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	4.35	30	
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	6.43	30	
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	3.20	30	
Pyrene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140	9.68	30	
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.32		mg/Kg wet	3.33		69.7	30-130			
Surrogate: p-Terphenyl-d14	2.89		mg/Kg wet	3.33		86.8	30-130			
Matrix Spike (B216546-MS1)										
			Source: 18K0230-01		Prepared: 11/06/18 Analyzed: 11/07/18					
Acenaphthene	1.04	0.20	mg/Kg dry	1.97	ND	53.1	40-140			
Acenaphthylene	1.11	0.20	mg/Kg dry	1.97	ND	56.7	40-140			
Anthracene	1.19	0.20	mg/Kg dry	1.97	ND	60.7	40-140			
Benzo(a)anthracene	1.28	0.20	mg/Kg dry	1.97	0.0661	61.9	40-140			
Benzo(a)pyrene	1.31	0.20	mg/Kg dry	1.97	0.0813	62.7	40-140			
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.97	0.0593	53.7	40-140			
Benzo(g,h,i)perylene	1.25	0.20	mg/Kg dry	1.97	ND	63.5	40-140			
Benzo(k)fluoranthene	1.10	0.20	mg/Kg dry	1.97	ND	56.2	40-140			
Chrysene	1.17	0.20	mg/Kg dry	1.97	ND	59.3	40-140			
Dibenz(a,h)anthracene	1.17	0.20	mg/Kg dry	1.97	ND	59.6	40-140			
Fluoranthene	1.17	0.20	mg/Kg dry	1.97	0.0848	55.2	40-140			
Fluorene	1.20	0.20	mg/Kg dry	1.97	ND	60.9	40-140			
Indeno(1,2,3-cd)pyrene	1.23	0.20	mg/Kg dry	1.97	ND	62.8	40-140			
2-Methylnaphthalene	0.943	0.20	mg/Kg dry	1.97	ND	48.0	40-140			
Naphthalene	0.783	0.20	mg/Kg dry	1.97	ND	39.8	40-140	*		MS-22
Phenanthrene	1.25	0.20	mg/Kg dry	1.97	ND	63.4	40-140			
Pyrene	1.46	0.20	mg/Kg dry	1.97	0.157	66.5	40-140			
Surrogate: Nitrobenzene-d5	1.78		mg/Kg dry	3.93		45.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.88		mg/Kg dry	3.93		47.7	30-130			
Surrogate: p-Terphenyl-d14	2.94		mg/Kg dry	3.93		74.9	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 B216546 - SW-846 3546										
Matrix Spike Dup (B216546-MSD1)	Source: 18K0230-01			Prepared: 11/06/18 Analyzed: 11/07/18						
Acenaphthene	1.04	0.20	mg/Kg dry	1.95	ND	53.4	40-140	0.456	30	
Acenaphthylene	1.10	0.20	mg/Kg dry	1.95	ND	56.4	40-140	1.51	30	
Anthracene	1.06	0.20	mg/Kg dry	1.95	ND	54.3	40-140	12.1	30	
Benzo(a)anthracene	1.18	0.20	mg/Kg dry	1.95	0.0661	57.4	40-140	8.02	30	
Benzo(a)pyrene	1.38	0.20	mg/Kg dry	1.95	0.0813	66.5	40-140	4.66	30	
Benzo(b)fluoranthene	1.24	0.20	mg/Kg dry	1.95	0.0593	60.6	40-140	10.4	30	
Benzo(g,h,i)perylene	1.19	0.20	mg/Kg dry	1.95	ND	61.0	40-140	5.00	30	
Benzo(k)fluoranthene	1.22	0.20	mg/Kg dry	1.95	ND	62.8	40-140	10.1	30	
Chrysene	1.08	0.20	mg/Kg dry	1.95	ND	55.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.26	0.20	mg/Kg dry	1.95	ND	64.8	40-140	7.41	30	
Fluoranthene	1.08	0.20	mg/Kg dry	1.95	0.0848	51.0	40-140	8.29	30	
Fluorene	1.15	0.20	mg/Kg dry	1.95	ND	59.1	40-140	4.02	30	
Indeno(1,2,3-cd)pyrene	1.34	0.20	mg/Kg dry	1.95	ND	68.8	40-140	8.02	30	
2-Methylnaphthalene	1.02	0.20	mg/Kg dry	1.95	ND	52.6	40-140	8.21	30	
Naphthalene	0.922	0.20	mg/Kg dry	1.95	ND	47.4	40-140	16.4	30	
Phenanthrene	1.08	0.20	mg/Kg dry	1.95	ND	55.6	40-140	14.0	30	
Pyrene	1.34	0.20	mg/Kg dry	1.95	0.157	60.8	40-140	8.79	30	
Surrogate: Nitrobenzene-d5	2.11		mg/Kg dry	3.89		54.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.95		mg/Kg dry	3.89		50.1	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/Kg dry	3.89		64.4	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216492 - SW-846 3546										
Blank (B216492-BLK1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		68.8	30-150			
LCS (B216492-BS1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
4,4'-DDT [2C]	0.097	0.0040	mg/Kg wet	0.100		96.8	40-140			
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		89.2	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.0	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.0	40-140			
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		87.6	40-140			
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		92.8	30-150			
LCS Dup (B216492-BSD1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
4,4'-DDE	0.097	0.0040	mg/Kg wet	0.100		97.1	40-140	7.19	30	
4,4'-DDE [2C]	0.095	0.0040	mg/Kg wet	0.100		95.4	40-140	5.15	30	
4,4'-DDT	0.095	0.0040	mg/Kg wet	0.100		94.7	40-140	7.76	30	
4,4'-DDT [2C]	0.093	0.0040	mg/Kg wet	0.100		93.3	40-140	3.66	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		87.1	40-140	2.42	30	
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140	1.06	30	
Endosulfan II	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140	3.81	30	
Endosulfan II [2C]	0.086	0.0080	mg/Kg wet	0.100		85.8	40-140	2.06	30	
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		90.0	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216557 - % Solids

Duplicate (B216557-DUP1)

Source: 18K0230-01

Prepared: 11/06/18 Analyzed: 11/07/18

% Solids	83.1		% Wt			83.7		0.740	20	
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BREAKDOWN REPORT

Lab Sample ID: S029132-PEM1 **Analyzed:** 11/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	2.62

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.56
Endrin [2]	2.80

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*Lab Sample ID: B216492-BS1 Date(s) Analyzed 11/07/2018 11/07/2018Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.288	7.256	7.316	0.10	
	2	7.289	7.259	7.319	0.10	0.0
4,4'-DDT	1	7.969	7.936	7.996	0.10	
	2	7.983	7.952	8.012	0.097	3.1
Endosulfan I	1	7.352	7.319	7.379	0.089	
	2	7.212	7.182	7.242	0.082	8.2
Endosulfan II	1	7.892	7.860	7.920	0.090	
	2	7.824	7.793	7.853	0.088	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216492-BSD1 Date(s) Analyzed 11/07/2018 11/07/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.286	7.256	7.316	0.097	
	2	7.290	7.259	7.319	0.095	2.1
4,4'-DDT	1	7.966	7.936	7.996	0.095	
	2	7.983	7.952	8.012	0.093	2.1
Endosulfan I	1	7.350	7.319	7.379	0.087	
	2	7.213	7.182	7.242	0.081	7.1
Endosulfan II	1	7.890	7.860	7.920	0.087	
	2	7.824	7.793	7.853	0.086	1.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18X0230



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LAND remediation

Company Name: LAND remediation

Address: 74 Hudson River Road Waterford, NY
 Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: OU_2 Sed
 Project Number:
 Project Manager: Matthew Warren
 Con-Test Quote Name/Number:
 Invoice Recipient: mjw@land-remediation.com
 Sampled By: Ethan Braedt

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
 East Longmeadow, MA 01028

Doc # 380 Rev 1_03242017

Page 1 of 2

Requested Turnaround Time
 7-Day 10-Day
 Due Date:
 Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-143-Bottom	11/5/2018 0:00	11/5/2018 3:30pm	X	X	S	L
2	OU2-SED-143-Bottom(MS)	11/5/2018 0:00	11/5/2018 3:30pm	X	X	S	L
	OU2-SED-143-Bottom(MSD)	11/5/2018 0:00	11/5/2018 3:30pm	X	X	S	L
	DUP-3			X	X	S	L

ANALYSIS REQUESTED

8260 Standard*
 8081*

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)

4 Dissolved Metals Samples
 Field Filtered
 Lab to Filter

5 Orthophosphate Samples
 Field Filtered
 Lab to Filter

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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) *Cody Caputo* Date/Time: 11-6-18
 Received by: (signature) *eddy* Date/Time: 11-6-18 8:15AM
 Relinquished by: (signature) *[Signature]* Date/Time: 11-6-18 12:15PM
 Received by: (signature) *[Signature]* Date/Time: 11-6-18 12:15
 Relinquished by: (signature) *[Signature]* Date/Time: 11-6-18 15:15
 Received by: (signature) *[Signature]* Date/Time: 11-6-18 1315

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other:
 Chromatogram
 AIHA-LAP, LLC

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Other
 PCB ONLY
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LANI Remediation
 Received By RAP Date 11/6/18 Time 1315
 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 # 557 Actual Temp - 3.5
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Cate + Matt G
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? T
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>4</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>8</u>	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:

November 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake - OU2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0231

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0231

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

PROJECT LOCATION: Saranac Lake - OU2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-160-Sidewall	18K0231-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-161-Sidewall	18K0231-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-160-Sidewall

Sample ID: 18K0231-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:27:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:07	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:07	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:07	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	99.2	70-130	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-160-Sidewall

Sample ID: 18K0231-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:27:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 11:53	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	64.4	30-130	
2-Fluorobiphenyl	54.6	30-130	
p-Terphenyl-d14	72.9	30-130	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-160-Sidewall

Sample ID: 18K0231-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:27:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 12:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.8		30-150						11/7/18 12:37	
Decachlorobiphenyl [2]	87.2		30-150						11/7/18 12:37	
Tetrachloro-m-xylene [1]	98.2		30-150						11/7/18 12:37	
Tetrachloro-m-xylene [2]	84.5		30-150						11/7/18 12:37	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-160-Sidewall

Sample ID: 18K0231-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:27:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.8	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/6/18	11/7/18 12:25	QNW

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-160-Sidewall

Sample ID: 18K0231-01

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:27:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	11/6/18	11/7/18 0:34	KMG

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-161-Sidewall

Sample ID: 18K0231-02

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:35	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:35	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	11/7/18	11/7/18 8:35	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	97.1	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-161-Sidewall

Sample ID: 18K0231-02

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:33:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/6/18	11/7/18 12:20	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		60.5	30-130						11/7/18 12:20	
2-Fluorobiphenyl		56.0	30-130						11/7/18 12:20	
p-Terphenyl-d14		70.5	30-130						11/7/18 12:20	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-161-Sidewall

Sample ID: 18K0231-02

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:33:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/6/18	11/7/18 13:04	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.6		30-150						11/7/18 13:04	
Decachlorobiphenyl [2]	72.7		30-150						11/7/18 13:04	
Tetrachloro-m-xylene [1]	80.4		30-150						11/7/18 13:04	
Tetrachloro-m-xylene [2]	68.1		30-150						11/7/18 13:04	

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-161-Sidewall

Sample ID: 18K0231-02

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:33:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.9	0.42	0.26	mg/Kg dry	1		SW-846 6010D	11/6/18	11/7/18 12:30	QNW

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Project Location: Saranac Lake - OU2 Soil

Sample Description:

Work Order: 18K0231

Date Received: 11/6/2018

Field Sample #: OU2-Soil-161-Sidewall

Sample ID: 18K0231-02

Start Date/Time: 11/5/2018 12:00:00AM

Sample Matrix: Soil

Stop Date/Time: 11/5/2018 3:33:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	11/6/18	11/7/18 0:34	KMG

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0231-01 [OU2-Soil-160-Sidewall]	B216557	11/06/18
18K0231-02 [OU2-Soil-161-Sidewall]	B216557	11/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0231-01 [OU2-Soil-160-Sidewall]	B216539	1.55	50.0	11/06/18
18K0231-02 [OU2-Soil-161-Sidewall]	B216539	1.51	50.0	11/06/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0231-01 [OU2-Soil-160-Sidewall]	B216492	10.4	10.0	11/06/18
18K0231-02 [OU2-Soil-161-Sidewall]	B216492	10.5	10.0	11/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0231-01 [OU2-Soil-160-Sidewall]	B216578	8.68	10.0	11/07/18
18K0231-02 [OU2-Soil-161-Sidewall]	B216578	8.75	10.0	11/07/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0231-01 [OU2-Soil-160-Sidewall]	B216546	30.1	1.00	11/06/18
18K0231-02 [OU2-Soil-161-Sidewall]	B216546	30.1	1.00	11/06/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216578 - SW-846 5035										
Blank (B216578-BLK1)										
Prepared & Analyzed: 11/07/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.1	70-130			
LCS (B216578-BS1)										
Prepared & Analyzed: 11/07/18										
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B216578-BSD1)										
Prepared & Analyzed: 11/07/18										
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.1	70-130	1.58	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	1.23	25	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B216546 - SW-846 3546

Blank (B216546-BLK1)

Prepared: 11/06/18 Analyzed: 11/07/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.65		mg/Kg wet	3.33		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.30		mg/Kg wet	3.33		68.9	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.6	30-130			

LCS (B216546-BS1)

Prepared: 11/06/18 Analyzed: 11/07/18

Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140			
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.33		71.2	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		80.9	30-130			

LCS Dup (B216546-BSD1)

Prepared: 11/06/18 Analyzed: 11/07/18

Benzo(a)anthracene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	6.12	30	
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	9.10	30	
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	9.55	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	12.0	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	8.62	30	
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	5.96	30	
Indeno(1,2,3-cd)pyrene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140	10.5	30	
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.32		mg/Kg wet	3.33		69.7	30-130			
Surrogate: p-Terphenyl-d14	2.89		mg/Kg wet	3.33		86.8	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216492 - SW-846 3546										
Blank (B216492-BLK1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		68.8	30-150			
LCS (B216492-BS1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
alpha-BHC	0.094	0.0050	mg/Kg wet	0.100		94.5	40-140			
alpha-BHC [2C]	0.089	0.0050	mg/Kg wet	0.100		89.1	40-140			
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		92.8	30-150			
LCS Dup (B216492-BSD1)										
Prepared: 11/06/18 Analyzed: 11/07/18										
alpha-BHC	0.090	0.0050	mg/Kg wet	0.100		89.8	40-140	5.04	30	
alpha-BHC [2C]	0.085	0.0050	mg/Kg wet	0.100		84.9	40-140	4.79	30	
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		90.0	30-150			

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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 B216539 - SW-846 3050B										
Blank (B216539-BLK1)										
					Prepared: 11/06/18 Analyzed: 11/07/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216539-BS1)										
					Prepared: 11/06/18 Analyzed: 11/07/18					
Chromium	129	0.99	mg/Kg wet	136		94.6	82.4-117.6			
LCS Dup (B216539-BSD1)										
					Prepared: 11/06/18 Analyzed: 11/07/18					
Chromium	142	0.99	mg/Kg wet	136		104	82.4-117.6	9.95	30	

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BREAKDOWN REPORT

Lab Sample ID: S029132-PEM1 **Analyzed:** 11/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	2.62

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.56
Endrin [2]	2.80

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216492-BS1 Date(s) Analyzed 11/07/2018 11/07/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.820	5.788	5.848	0.094	
	2	5.727	5.696	5.756	0.089	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B216492-BSD1 Date(s) Analyzed 11/07/2018 11/07/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.819	5.788	5.848	0.090	
	2	5.726	5.696	5.756	0.085	5.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Soil

Project Number: Matthew Warren

Project Manager: mjw@land-remediation.com

Con-Test Quote Name/Number: Ethan Bradt

Invoice Recipient: mjw@land-remediation.com

Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day

Due Date: Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day

Data Delivery: Format: PDF EXCEL

Other: CLP Like Data Pkg Required:

Email To: mjw@land-remediation.com

Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-Soil-160-sidewall	11/5/2018 0:00	11/5/2018 3:27pm	X	S	L	L
2	OU2-Soil-161-Sidewall	11/5/2018 0:00	11/5/2018 3:33pm	X	S	L	L

ANALYSIS REQUESTED

8081 - Alpha-BHC Only

8260 - Xylenes Only + total Xylene

8270 PAH*

Chromium 6010

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)

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: 11-6-18
Received by: (signature) Date/Time: 11-6-18 8:15A
Relinquished by: (signature) Date/Time: 11-6-18 12:15PM
Received by: (signature) Date/Time: 11-6-18 15:15
Relinquished by: (signature) Date/Time: 11/6/18 15:15

Program 8: Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

PCB ONLY
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 11/6/18 Time 15:15

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 # 557 Actual Temp - 3.5
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____
Who was notified? Cate + Alex + Matt G
Who was notified? _____

MS/MSD? f

Is splitting samples required? f

On COC? f

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>2</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>4</u>	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:

November 13, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0426

Enclosed are results of analyses for samples received by the laboratory on November 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0426

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU_2 Sed-46-Bottom	18K0426-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-47-Bottom	18K0426-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-126-Sidewall	18K0426-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-127-Sidewall	18K0426-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-128-Sidewall	18K0426-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-129-Sidewall	18K0426-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-144-Bottom	18K0426-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-145-Bottom	18K0426-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-4	18K0426-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU_2 Sed-48-Bottom	18K0426-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0426

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU_2 Sed-130-Sidewall	18K0426-11	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
DUP-5	18K0426-12	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
DUP-6	18K0426-13	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K0426-01[OU_2 Sed-46-Bottom], 18K0426-06[OU_2 Sed-129-Sidewall]

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**4,4'-DDT**

18K0426-07[OU_2 Sed-144-Bottom], B216874-MS1, B216874-MSD1

4,4'-DDT [2C]

18K0426-07[OU_2 Sed-144-Bottom], B216874-MS1, B216874-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-46-Bottom

Sampled: 11/7/2018 15:44

Sample ID: 18K0426-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
Ethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
Isopropylbenzene (Cumene)	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
Toluene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
1,2,4-Trimethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
m+p Xylene	ND	0.0057	0.0024	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
o-Xylene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
Xylenes (total)	ND	0.0085		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:46	MFf
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					11/12/18	8:46	
Toluene-d8		98.2	70-130					11/12/18	8:46	
4-Bromofluorobenzene		99.3	70-130					11/12/18	8:46	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-46-Bottom

Sampled: 11/7/2018 15:44

Sample ID: 18K0426-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthylene	ND	0.28	0.092	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Anthracene	3.0	0.28	0.079	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Benzo(a)anthracene	ND	0.28	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Benzo(a)pyrene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Benzo(b)fluoranthene	ND	0.28	0.078	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Benzo(g,h,i)perylene	ND	0.28	0.12	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Benzo(k)fluoranthene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Chrysene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Dibenz(a,h)anthracene	ND	0.28	0.17	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Fluoranthene	1.9	0.28	0.091	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Fluorene	4.7	0.28	0.089	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.28	0.20	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
2-Methylnaphthalene	ND	0.28	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Naphthalene	0.19	0.28	0.14	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Phenanthrene	16	2.8	1.4	mg/Kg dry	10		SW-846 8270D	11/9/18	11/13/18 10:02	BGL
Pyrene	1.8	0.28	0.091	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:14	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	68.4		30-130				11/12/18 14:14			
Nitrobenzene-d5	51.5		30-130				11/13/18 10:02			
2-Fluorobiphenyl	54.4		30-130				11/12/18 14:14			
2-Fluorobiphenyl	39.1		30-130				11/13/18 10:02			
p-Terphenyl-d14	66.4		30-130				11/12/18 14:14			
p-Terphenyl-d14	49.4		30-130				11/13/18 10:02			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-46-Bottom

Sampled: 11/7/2018 15:44

Sample ID: 18K0426-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.060	0.0045	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 16:36	TG
4,4'-DDT [1]	ND	0.060	0.0060	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 16:36	TG
Endosulfan I [1]	ND	0.075	0.0060	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 16:36	TG
Endosulfan II [1]	ND	0.12	0.0045	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 16:36	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.4		30-150				11/10/18 16:36			
Decachlorobiphenyl [2]	83.0		30-150				11/10/18 16:36			
Tetrachloro-m-xylene [1]	70.1		30-150				11/10/18 16:36			
Tetrachloro-m-xylene [2]	71.3		30-150				11/10/18 16:36			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-46-Bottom

Sampled: 11/7/2018 15:44

Sample ID: 18K0426-01

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	61.4		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-47-Bottom

Sampled: 11/7/2018 16:00

Sample ID: 18K0426-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Ethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Toluene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
1,2,4-Trimethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
m+p Xylene	ND	0.0035	0.0015	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
o-Xylene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Xylenes (total)	ND	0.0053		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130						11/12/18 10:00	
Toluene-d8		99.6	70-130						11/12/18 10:00	
4-Bromofluorobenzene		98.8	70-130						11/12/18 10:00	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-47-Bottom

Sampled: 11/7/2018 16:00

Sample ID: 18K0426-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Phenanthrene	0.17	0.22	0.11	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 14:39	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		65.5	30-130						11/12/18 14:39	
2-Fluorobiphenyl		51.8	30-130						11/12/18 14:39	
p-Terphenyl-d14		68.5	30-130						11/12/18 14:39	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-47-Bottom

Sampled: 11/7/2018 16:00

Sample ID: 18K0426-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:03	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:03	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:03	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:03	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	87.5		30-150				11/10/18 17:03			
Decachlorobiphenyl [2]	86.0		30-150				11/10/18 17:03			
Tetrachloro-m-xylene [1]	80.5		30-150				11/10/18 17:03			
Tetrachloro-m-xylene [2]	76.8		30-150				11/10/18 17:03			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-47-Bottom

Sampled: 11/7/2018 16:00

Sample ID: 18K0426-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.5		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-126-Sidewall

Sampled: 11/7/2018 15:39

Sample ID: 18K0426-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
Ethylbenzene	ND	0.0025	0.00098	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
Isopropylbenzene (Cumene)	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
Toluene	ND	0.0025	0.00098	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
1,2,4-Trimethylbenzene	0.0019	0.0025	0.00098	mg/Kg dry	1	J	SW-846 8260C	11/12/18	11/12/18 10:50	MF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
o-Xylene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
Xylenes (total)	ND	0.0074		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:50	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						11/12/18 10:50	
Toluene-d8		99.5	70-130						11/12/18 10:50	
4-Bromofluorobenzene		97.5	70-130						11/12/18 10:50	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-126-Sidewall

Sampled: 11/7/2018 15:39

Sample ID: 18K0426-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	7.7	1.5	0.46	mg/Kg dry	5		SW-846 8270D	11/9/18	11/13/18 10:24	BGL
Acenaphthylene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Anthracene	ND	0.31	0.088	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Benzo(a)anthracene	ND	0.31	0.081	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Benzo(a)pyrene	ND	0.31	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Benzo(b)fluoranthene	ND	0.31	0.086	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Benzo(g,h,i)perylene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Benzo(k)fluoranthene	ND	0.31	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Chrysene	ND	0.31	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Dibenz(a,h)anthracene	ND	0.31	0.19	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Fluoranthene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Fluorene	0.43	0.31	0.099	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.31	0.22	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
2-Methylnaphthalene	6.7	1.5	0.53	mg/Kg dry	5		SW-846 8270D	11/9/18	11/13/18 10:24	BGL
Naphthalene	2.7	0.31	0.16	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Phenanthrene	ND	0.31	0.16	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Pyrene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:04	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		69.1	30-130						11/12/18 15:04	
Nitrobenzene-d5		63.2	30-130						11/13/18 10:24	
2-Fluorobiphenyl		54.7	30-130						11/12/18 15:04	
2-Fluorobiphenyl		49.0	30-130						11/13/18 10:24	
p-Terphenyl-d14		66.3	30-130						11/12/18 15:04	
p-Terphenyl-d14		59.0	30-130						11/13/18 10:24	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-126-Sidewall

Sampled: 11/7/2018 15:39

Sample ID: 18K0426-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0071	0.00054	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:30	TG
4,4'-DDT [1]	ND	0.0071	0.00071	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:30	TG
Endosulfan I [1]	ND	0.0089	0.00071	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:30	TG
Endosulfan II [1]	ND	0.014	0.00054	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:30	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.0		30-150						11/10/18 17:30	
Decachlorobiphenyl [2]	82.9		30-150						11/10/18 17:30	
Tetrachloro-m-xylene [1]	74.6		30-150						11/10/18 17:30	
Tetrachloro-m-xylene [2]	68.3		30-150						11/10/18 17:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-126-Sidewall

Sampled: 11/7/2018 15:39

Sample ID: 18K0426-03

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	53.9		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-127-Sidewall

Sampled: 11/7/2018 15:50

Sample ID: 18K0426-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:15	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					11/12/18	11:15	
Toluene-d8		99.3	70-130					11/12/18	11:15	
4-Bromofluorobenzene		94.5	70-130					11/12/18	11:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-127-Sidewall

Sampled: 11/7/2018 15:50

Sample ID: 18K0426-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.14	0.19	0.056	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Acenaphthylene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Anthracene	0.23	0.19	0.054	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Benzo(a)anthracene	0.18	0.19	0.049	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Benzo(a)pyrene	0.077	0.19	0.058	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Benzo(b)fluoranthene	0.062	0.19	0.053	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Chrysene	0.14	0.19	0.058	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Fluoranthene	0.72	0.19	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Fluorene	0.15	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
2-Methylnaphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Phenanthrene	1.4	0.19	0.096	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Pyrene	1.1	0.19	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:28	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	73.6		30-130				11/12/18 15:28			
2-Fluorobiphenyl	57.8		30-130				11/12/18 15:28			
p-Terphenyl-d14	76.0		30-130				11/12/18 15:28			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-127-Sidewall

Sampled: 11/7/2018 15:50

Sample ID: 18K0426-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:57	TG
4,4'-DDT [1]	ND	0.0041	0.00041	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:57	TG
Endosulfan I [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:57	TG
Endosulfan II [1]	ND	0.0081	0.00031	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 17:57	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.0		30-150						11/10/18 17:57	
Decachlorobiphenyl [2]	89.0		30-150						11/10/18 17:57	
Tetrachloro-m-xylene [1]	84.8		30-150						11/10/18 17:57	
Tetrachloro-m-xylene [2]	78.0		30-150						11/10/18 17:57	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-127-Sidewall

Sampled: 11/7/2018 15:50

Sample ID: 18K0426-04

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	91.0		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-128-Sidewall

Sampled: 11/7/2018 16:04

Sample ID: 18K0426-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
Toluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 11:41	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						11/12/18 11:41	
Toluene-d8		100	70-130						11/12/18 11:41	
4-Bromofluorobenzene		100	70-130						11/12/18 11:41	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-128-Sidewall

Sampled: 11/7/2018 16:04

Sample ID: 18K0426-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.9	0.20	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Anthracene	4.1	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Benzo(a)anthracene	0.22	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Chrysene	0.16	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Fluoranthene	3.3	2.0	0.66	mg/Kg dry	10		SW-846 8270D	11/9/18	11/13/18 10:47	BGL
Fluorene	2.0	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 15:54	BGL
Phenanthrene	17	2.0	1.0	mg/Kg dry	10		SW-846 8270D	11/9/18	11/13/18 10:47	BGL
Pyrene	5.0	2.0	0.66	mg/Kg dry	10		SW-846 8270D	11/9/18	11/13/18 10:47	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	68.3		30-130				11/12/18 15:54			
Nitrobenzene-d5	49.7		30-130				11/13/18 10:47			
2-Fluorobiphenyl	53.8		30-130				11/12/18 15:54			
2-Fluorobiphenyl	39.6		30-130				11/13/18 10:47			
p-Terphenyl-d14	71.6		30-130				11/12/18 15:54			
p-Terphenyl-d14	50.4		30-130				11/13/18 10:47			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-128-Sidewall

Sampled: 11/7/2018 16:04

Sample ID: 18K0426-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 18:24	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 18:24	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 18:24	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 18:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.4		30-150				11/10/18 18:24			
Decachlorobiphenyl [2]	80.2		30-150				11/10/18 18:24			
Tetrachloro-m-xylene [1]	75.5		30-150				11/10/18 18:24			
Tetrachloro-m-xylene [2]	69.7		30-150				11/10/18 18:24			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-128-Sidewall

Sampled: 11/7/2018 16:04

Sample ID: 18K0426-05

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	82.7		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-129-Sidewall

Sampled: 11/7/2018 15:55

Sample ID: 18K0426-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
Ethylbenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
Isopropylbenzene (Cumene)	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
Toluene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
1,2,4-Trimethylbenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
o-Xylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
Xylenes (total)	ND	0.0056		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:06	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130						11/12/18 12:06	
Toluene-d8		98.3	70-130						11/12/18 12:06	
4-Bromofluorobenzene		99.2	70-130						11/12/18 12:06	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-129-Sidewall

Sampled: 11/7/2018 15:55

Sample ID: 18K0426-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.19	0.25	0.076	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Acenaphthylene	ND	0.25	0.084	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Anthracene	0.90	0.25	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Benzo(a)anthracene	ND	0.25	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Benzo(a)pyrene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Benzo(b)fluoranthene	ND	0.25	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Benzo(k)fluoranthene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Chrysene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Fluoranthene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Fluorene	0.25	0.25	0.081	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
2-Methylnaphthalene	ND	0.25	0.087	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Phenanthrene	4.5	0.25	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Pyrene	0.22	0.25	0.083	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 16:19	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	64.5		30-130				11/12/18 16:19			
2-Fluorobiphenyl	51.9		30-130				11/12/18 16:19			
p-Terphenyl-d14	68.3		30-130				11/12/18 16:19			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-129-Sidewall

Sampled: 11/7/2018 15:55

Sample ID: 18K0426-06

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.060	0.0045	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 18:51	TG
4,4'-DDT [1]	ND	0.060	0.0060	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 18:51	TG
Endosulfan I [1]	ND	0.075	0.0060	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 18:51	TG
Endosulfan II [1]	ND	0.12	0.0045	mg/Kg dry	10		SW-846 8081B	11/9/18	11/10/18 18:51	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.1		30-150						11/10/18 18:51	
Decachlorobiphenyl [2]	85.2		30-150						11/10/18 18:51	
Tetrachloro-m-xylene [1]	79.2		30-150						11/10/18 18:51	
Tetrachloro-m-xylene [2]	80.4		30-150						11/10/18 18:51	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-129-Sidewall

Sampled: 11/7/2018 15:55

Sample ID: 18K0426-06

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	66.4		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-144-Bottom

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:21	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130					11/12/18	8:21	
Toluene-d8		99.2	70-130					11/12/18	8:21	
4-Bromofluorobenzene		97.7	70-130					11/12/18	8:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-144-Bottom

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Benzo(g,h,i)perylene	ND	0.22	0.096	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Phenanthrene	0.23	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Pyrene	0.12	0.22	0.072	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 16:44	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		74.7	30-130						11/12/18 16:44	
2-Fluorobiphenyl		58.8	30-130						11/12/18 16:44	
p-Terphenyl-d14		79.4	30-130						11/12/18 16:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-144-Bottom

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:18	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1	R-06	SW-846 8081B	11/9/18	11/10/18 19:18	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:18	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:18	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.4		30-150						11/10/18 19:18	
Decachlorobiphenyl [2]	76.9		30-150						11/10/18 19:18	
Tetrachloro-m-xylene [1]	71.5		30-150						11/10/18 19:18	
Tetrachloro-m-xylene [2]	67.1		30-150						11/10/18 19:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-144-Bottom

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-07

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	77.6		% Wt	1		SM 2540G	11/9/18	11/10/18 12:23	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-145-Bottom

Sampled: 11/7/2018 14:24

Sample ID: 18K0426-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
1,2,4-Trimethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
m+p Xylene	ND	0.0046	0.0019	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
Xylenes (total)	ND	0.0068		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 12:31	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						11/12/18 12:31	
Toluene-d8		97.3	70-130						11/12/18 12:31	
4-Bromofluorobenzene		98.4	70-130						11/12/18 12:31	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-145-Bottom

Sampled: 11/7/2018 14:24

Sample ID: 18K0426-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Benzo(a)anthracene	0.090	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Fluoranthene	0.16	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Pyrene	0.35	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 8:55	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		72.9	30-130						11/13/18 8:55	
2-Fluorobiphenyl		57.7	30-130						11/13/18 8:55	
p-Terphenyl-d14		87.9	30-130						11/13/18 8:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-145-Bottom

Sampled: 11/7/2018 14:24

Sample ID: 18K0426-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:45	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:45	TG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:45	TG
Endosulfan II [1]	ND	0.0092	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 19:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.9		30-150						11/10/18 19:45	
Decachlorobiphenyl [2]	77.7		30-150						11/10/18 19:45	
Tetrachloro-m-xylene [1]	75.8		30-150						11/10/18 19:45	
Tetrachloro-m-xylene [2]	70.8		30-150						11/10/18 19:45	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-145-Bottom

Sampled: 11/7/2018 14:24

Sample ID: 18K0426-08

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	80.3		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-4

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
Toluene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
Xylenes (total)	ND	0.0050		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:05	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		110	70-130					11/12/18	9:05	
Toluene-d8		98.8	70-130					11/12/18	9:05	
4-Bromofluorobenzene		98.8	70-130					11/12/18	9:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-4

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Phenanthrene	0.20	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Pyrene	0.086	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 17:34	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	87.9		30-130				11/12/18 17:34			
2-Fluorobiphenyl	68.0		30-130				11/12/18 17:34			
p-Terphenyl-d14	90.8		30-130				11/12/18 17:34			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-4

Sampled: 11/7/2018 16:14

Sample ID: 18K0426-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 22:53	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 22:53	TG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 22:53	TG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 22:53	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.4		30-150						11/10/18 22:53	
Decachlorobiphenyl [2]	81.0		30-150						11/10/18 22:53	
Tetrachloro-m-xylene [1]	81.8		30-150						11/10/18 22:53	
Tetrachloro-m-xylene [2]	75.8		30-150						11/10/18 22:53	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Sampled: 11/7/2018 16:14

Field Sample #: DUP-4

Sample ID: 18K0426-09

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	79.2		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-48-Bottom

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
Ethylbenzene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
Toluene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
o-Xylene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 9:33	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		112	70-130					11/12/18	9:33	
Toluene-d8		98.8	70-130					11/12/18	9:33	
4-Bromofluorobenzene		97.3	70-130					11/12/18	9:33	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-48-Bottom

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Acenaphthylene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Anthracene	0.065	0.22	0.065	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Benzo(a)pyrene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Benzo(g,h,i)perylene	ND	0.22	0.099	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Benzo(k)fluoranthene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Chrysene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Fluoranthene	0.19	0.22	0.074	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
2-Methylnaphthalene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Phenanthrene	0.31	0.22	0.12	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Pyrene	0.26	0.22	0.074	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 17:56	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	82.4		30-130				11/12/18 17:56			
2-Fluorobiphenyl	61.8		30-130				11/12/18 17:56			
p-Terphenyl-d14	88.0		30-130				11/12/18 17:56			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-48-Bottom

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-10

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0052	0.00039	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:20	TG
4,4'-DDT [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:20	TG
Endosulfan I [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:20	TG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:20	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.5		30-150				11/10/18 23:20			
Decachlorobiphenyl [2]	87.2		30-150				11/10/18 23:20			
Tetrachloro-m-xylene [1]	88.4		30-150				11/10/18 23:20			
Tetrachloro-m-xylene [2]	82.0		30-150				11/10/18 23:20			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-48-Bottom

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.0		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-130-Sidewall

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:00	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130						11/12/18 10:00	
Toluene-d8		97.3	70-130						11/12/18 10:00	
4-Bromofluorobenzene		98.4	70-130						11/12/18 10:00	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-130-Sidewall

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 18:18	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		77.0	30-130						11/12/18 18:18	
2-Fluorobiphenyl		59.2	30-130						11/12/18 18:18	
p-Terphenyl-d14		84.0	30-130						11/12/18 18:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-130-Sidewall

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-11

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:46	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:46	TG
Endosulfan I [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:46	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	11/9/18	11/10/18 23:46	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.2		30-150				11/10/18 23:46			
Decachlorobiphenyl [2]	75.8		30-150				11/10/18 23:46			
Tetrachloro-m-xylene [1]	77.7		30-150				11/10/18 23:46			
Tetrachloro-m-xylene [2]	74.8		30-150				11/10/18 23:46			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: OU_2 Sed-130-Sidewall

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-11

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	78.4		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-5

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:27	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						11/12/18 10:27	
Toluene-d8		96.6	70-130						11/12/18 10:27	
4-Bromofluorobenzene		99.0	70-130						11/12/18 10:27	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-5

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Fluoranthene	0.15	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Phenanthrene	0.29	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Pyrene	0.26	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:18	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		81.0	30-130						11/13/18 9:18	
2-Fluorobiphenyl		64.0	30-130						11/13/18 9:18	
p-Terphenyl-d14		96.7	30-130						11/13/18 9:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-5

Sampled: 11/7/2018 13:12

Sample ID: 18K0426-12

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:13	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:13	TG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:13	TG
Endosulfan II [1]	ND	0.0092	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:13	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	69.9		30-150				11/11/18 0:13			
Decachlorobiphenyl [2]	68.5		30-150				11/11/18 0:13			
Tetrachloro-m-xylene [1]	76.0		30-150				11/11/18 0:13			
Tetrachloro-m-xylene [2]	71.7		30-150				11/11/18 0:13			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Sampled: 11/7/2018 13:12

Field Sample #: DUP-5

Sample ID: 18K0426-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-6

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 10:55	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130						11/12/18 10:55	
Toluene-d8		97.4	70-130						11/12/18 10:55	
4-Bromofluorobenzene		98.0	70-130						11/12/18 10:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-6

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/9/18	11/13/18 9:39	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		76.9	30-130						11/13/18 9:39	
2-Fluorobiphenyl		62.9	30-130						11/13/18 9:39	
p-Terphenyl-d14		94.3	30-130						11/13/18 9:39	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Field Sample #: DUP-6

Sampled: 11/7/2018 14:21

Sample ID: 18K0426-13

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:40	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:40	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:40	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 0:40	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.6		30-150						11/11/18 0:40	
Decachlorobiphenyl [2]	82.9		30-150						11/11/18 0:40	
Tetrachloro-m-xylene [1]	82.8		30-150						11/11/18 0:40	
Tetrachloro-m-xylene [2]	75.4		30-150						11/11/18 0:40	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0426

Date Received: 11/9/2018

Sampled: 11/7/2018 14:21

Field Sample #: DUP-6

Sample ID: 18K0426-13

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	78.4		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0426-01 [OU_2 Sed-46-Bottom]	B216878	11/09/18
18K0426-02 [OU_2 Sed-47-Bottom]	B216878	11/09/18
18K0426-03 [OU_2 Sed-126-Sidewall]	B216878	11/09/18
18K0426-04 [OU_2 Sed-127-Sidewall]	B216878	11/09/18
18K0426-05 [OU_2 Sed-128-Sidewall]	B216878	11/09/18
18K0426-06 [OU_2 Sed-129-Sidewall]	B216878	11/09/18
18K0426-07 [OU_2 Sed-144-Bottom]	B216878	11/09/18
18K0426-08 [OU_2 Sed-145-Bottom]	B216878	11/09/18
18K0426-09 [DUP-4]	B216878	11/09/18
18K0426-10 [OU_2 Sed-48-Bottom]	B216878	11/09/18
18K0426-11 [OU_2 Sed-130-Sidewall]	B216878	11/09/18
18K0426-12 [DUP-5]	B216878	11/09/18
18K0426-13 [DUP-6]	B216878	11/09/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0426-01 [OU_2 Sed-46-Bottom]	B216874	10.9	10.0	11/09/18
18K0426-02 [OU_2 Sed-47-Bottom]	B216874	10.3	10.0	11/09/18
18K0426-03 [OU_2 Sed-126-Sidewall]	B216874	10.4	10.0	11/09/18
18K0426-04 [OU_2 Sed-127-Sidewall]	B216874	10.8	10.0	11/09/18
18K0426-05 [OU_2 Sed-128-Sidewall]	B216874	10.3	10.0	11/09/18
18K0426-06 [OU_2 Sed-129-Sidewall]	B216874	10.1	10.0	11/09/18
18K0426-07 [OU_2 Sed-144-Bottom]	B216874	10.6	10.0	11/09/18
18K0426-08 [OU_2 Sed-145-Bottom]	B216874	10.8	10.0	11/09/18
18K0426-09 [DUP-4]	B216874	10.9	10.0	11/09/18
18K0426-10 [OU_2 Sed-48-Bottom]	B216874	10.2	10.0	11/09/18
18K0426-11 [OU_2 Sed-130-Sidewall]	B216874	10.2	10.0	11/09/18
18K0426-12 [DUP-5]	B216874	10.8	10.0	11/09/18
18K0426-13 [DUP-6]	B216874	10.8	10.0	11/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0426-01 [OU_2 Sed-46-Bottom]	B216978	5.76	10.0	11/12/18
18K0426-02 [OU_2 Sed-47-Bottom]	B216978	7.23	10.0	11/12/18
18K0426-03 [OU_2 Sed-126-Sidewall]	B216978	7.56	10.0	11/12/18
18K0426-04 [OU_2 Sed-127-Sidewall]	B216978	7.40	10.0	11/12/18
18K0426-05 [OU_2 Sed-128-Sidewall]	B216978	7.57	10.0	11/12/18
18K0426-06 [OU_2 Sed-129-Sidewall]	B216978	8.04	10.0	11/12/18
18K0426-07 [OU_2 Sed-144-Bottom]	B216978	8.43	10.0	11/12/18
18K0426-08 [OU_2 Sed-145-Bottom]	B216978	5.46	10.0	11/12/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0426-09 [DUP-4]	B216979	7.53	10.0	11/12/18
18K0426-10 [OU_2 Sed-48-Bottom]	B216979	8.46	10.0	11/12/18
18K0426-11 [OU_2 Sed-130-Sidewall]	B216979	8.28	10.0	11/12/18
18K0426-12 [DUP-5]	B216979	7.90	10.0	11/12/18
18K0426-13 [DUP-6]	B216979	8.52	10.0	11/12/18

Sample Extraction Data**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0426-01 [OU_2 Sed-46-Bottom]	B216870	30.2	1.00	11/09/18
18K0426-01RE1 [OU_2 Sed-46-Bottom]	B216870	30.2	1.00	11/09/18
18K0426-02 [OU_2 Sed-47-Bottom]	B216870	30.1	1.00	11/09/18
18K0426-03 [OU_2 Sed-126-Sidewall]	B216870	30.9	1.00	11/09/18
18K0426-03RE1 [OU_2 Sed-126-Sidewall]	B216870	30.9	1.00	11/09/18
18K0426-04 [OU_2 Sed-127-Sidewall]	B216870	30.1	1.00	11/09/18
18K0426-05 [OU_2 Sed-128-Sidewall]	B216870	30.8	1.00	11/09/18
18K0426-05RE1 [OU_2 Sed-128-Sidewall]	B216870	30.8	1.00	11/09/18
18K0426-06 [OU_2 Sed-129-Sidewall]	B216870	30.5	1.00	11/09/18
18K0426-07 [OU_2 Sed-144-Bottom]	B216870	30.1	1.00	11/09/18
18K0426-08 [OU_2 Sed-145-Bottom]	B216870	30.6	1.00	11/09/18
18K0426-09 [DUP-4]	B216870	30.4	1.00	11/09/18
18K0426-10 [OU_2 Sed-48-Bottom]	B216870	30.0	1.00	11/09/18
18K0426-11 [OU_2 Sed-130-Sidewall]	B216870	30.1	1.00	11/09/18
18K0426-12 [DUP-5]	B216870	30.4	1.00	11/09/18
18K0426-13 [DUP-6]	B216870	30.8	1.00	11/09/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216978 - SW-846 5035										
Blank (B216978-BLK1)										
Prepared & Analyzed: 11/12/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.0	70-130			
LCS (B216978-BS1)										
Prepared & Analyzed: 11/12/18										
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.3	70-130			
LCS Dup (B216978-BSD1)										
Prepared & Analyzed: 11/12/18										
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	2.49	25	
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	1.16	25	
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	1.06	25	
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	0.856	25	
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.0887	25	
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130	0.210	25	
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	0.629	25	
Surrogate: 1,2-Dichloroethane-d4	0.0523		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			
Matrix Spike (B216978-MS1)										
Source: 18K0426-07 Prepared & Analyzed: 11/12/18										
Benzene	0.0157	0.0017	mg/Kg dry	0.0167	ND	93.8	70-130			
Ethylbenzene	0.0159	0.0017	mg/Kg dry	0.0167	ND	95.4	70-130			
Isopropylbenzene (Cumene)	0.0167	0.0017	mg/Kg dry	0.0167	ND	99.7	70-130			
Toluene	0.0156	0.0017	mg/Kg dry	0.0167	ND	93.6	70-130			
1,2,4-Trimethylbenzene	0.0157	0.0017	mg/Kg dry	0.0167	ND	94.2	70-130			
m+p Xylene	0.0322	0.0033	mg/Kg dry	0.0334	ND	96.4	70-130			
o-Xylene	0.0162	0.0017	mg/Kg dry	0.0167	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0437		mg/Kg dry	0.0418		105	70-130			
Surrogate: Toluene-d8	0.0418		mg/Kg dry	0.0418		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0437		mg/Kg dry	0.0418		104	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216978 - SW-846 5035

Matrix Spike Dup (B216978-MSD1)

Source: **18K0426-07**

Prepared & Analyzed: 11/12/18

Benzene	0.0150	0.0015	mg/Kg dry	0.0154	ND	97.9	70-130	4.14	30	
Ethylbenzene	0.0149	0.0015	mg/Kg dry	0.0154	ND	97.0	70-130	6.80	30	
Isopropylbenzene (Cumene)	0.0149	0.0015	mg/Kg dry	0.0154	ND	97.0	70-130	11.2	30	
Toluene	0.0146	0.0015	mg/Kg dry	0.0154	ND	95.0	70-130	6.91	30	
1,2,4-Trimethylbenzene	0.0145	0.0015	mg/Kg dry	0.0154	ND	94.7	70-130	7.98	30	
m+p Xylene	0.0301	0.0031	mg/Kg dry	0.0307	ND	98.1	70-130	6.77	30	
o-Xylene	0.0149	0.0015	mg/Kg dry	0.0154	ND	97.2	70-130	7.90	30	
Surrogate: 1,2-Dichloroethane-d4	0.0382		mg/Kg dry	0.0384		99.5	70-130			
Surrogate: Toluene-d8	0.0386		mg/Kg dry	0.0384		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0397		mg/Kg dry	0.0384		103	70-130			

Batch B216979 - SW-846 5035

Blank (B216979-BLK1)

Prepared & Analyzed: 11/12/18

Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0546		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0485		mg/Kg wet	0.0500		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.7	70-130			

LCS (B216979-BS1)

Prepared & Analyzed: 11/12/18

Benzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.8	70-130			
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0548		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.0	70-130			

LCS Dup (B216979-BSD1)

Prepared & Analyzed: 11/12/18

Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	1.27	25	
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	4.39	25	
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.15	25	
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	0.111	25	
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	3.68	25	
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.4	70-130	0.669	25	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	2.69	25	
Surrogate: 1,2-Dichloroethane-d4	0.0545		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216870 - SW-846 3546

Blank (B216870-BLK1)

Prepared: 11/09/18 Analyzed: 11/12/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.8	30-130			
Surrogate: 2-Fluorobiphenyl	1.81		mg/Kg wet	3.33		54.4	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/Kg wet	3.33		78.2	30-130			

LCS (B216870-BS1)

Prepared: 11/09/18 Analyzed: 11/12/18

Acenaphthene	0.791	0.17	mg/Kg wet	1.67		47.4	40-140			
Acenaphthylene	0.841	0.17	mg/Kg wet	1.67		50.5	40-140			
Anthracene	0.872	0.17	mg/Kg wet	1.67		52.3	40-140			
Benzo(a)anthracene	0.937	0.17	mg/Kg wet	1.67		56.2	40-140			
Benzo(a)pyrene	0.926	0.17	mg/Kg wet	1.67		55.5	40-140			
Benzo(b)fluoranthene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Benzo(k)fluoranthene	0.893	0.17	mg/Kg wet	1.67		53.6	40-140			
Chrysene	0.901	0.17	mg/Kg wet	1.67		54.1	40-140			
Dibenz(a,h)anthracene	0.923	0.17	mg/Kg wet	1.67		55.4	40-140			
Fluoranthene	0.868	0.17	mg/Kg wet	1.67		52.1	40-140			
Fluorene	0.829	0.17	mg/Kg wet	1.67		49.7	40-140			
Indeno(1,2,3-cd)pyrene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140			
2-Methylnaphthalene	0.919	0.17	mg/Kg wet	1.67		55.1	40-140			
Naphthalene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Phenanthrene	0.880	0.17	mg/Kg wet	1.67		52.8	40-140			
Pyrene	0.907	0.17	mg/Kg wet	1.67		54.4	40-140			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.59		mg/Kg wet	3.33		47.6	30-130			
Surrogate: p-Terphenyl-d14	1.98		mg/Kg wet	3.33		59.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216870 - SW-846 3546										
LCS Dup (B216870-BSD1)										
					Prepared: 11/09/18 Analyzed: 11/12/18					
Acenaphthene	0.822	0.17	mg/Kg wet	1.67		49.3	40-140	3.85	30	
Acenaphthylene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140	5.55	30	
Anthracene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140	5.32	30	
Benzo(a)anthracene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	4.49	30	
Benzo(a)pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	5.67	30	
Benzo(b)fluoranthene	0.905	0.17	mg/Kg wet	1.67		54.3	40-140	2.24	30	
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		64.5	40-140	4.18	30	
Benzo(k)fluoranthene	0.934	0.17	mg/Kg wet	1.67		56.1	40-140	4.49	30	
Chrysene	0.952	0.17	mg/Kg wet	1.67		57.1	40-140	5.47	30	
Dibenz(a,h)anthracene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140	4.79	30	
Fluoranthene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140	6.03	30	
Fluorene	0.877	0.17	mg/Kg wet	1.67		52.6	40-140	5.59	30	
Indeno(1,2,3-cd)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	3.17	30	
2-Methylnaphthalene	0.974	0.17	mg/Kg wet	1.67		58.5	40-140	5.85	30	
Naphthalene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140	4.42	30	
Phenanthrene	0.925	0.17	mg/Kg wet	1.67		55.5	40-140	4.91	30	
Pyrene	0.949	0.17	mg/Kg wet	1.67		57.0	40-140	4.52	30	
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.64		mg/Kg wet	3.33		49.1	30-130			
Surrogate: p-Terphenyl-d14	2.05		mg/Kg wet	3.33		61.5	30-130			
Matrix Spike (B216870-MS1)										
			Source: 18K0426-07		Prepared: 11/09/18 Analyzed: 11/12/18					
Acenaphthene	1.15	0.22	mg/Kg dry	2.12	ND	54.1	40-140			
Acenaphthylene	1.19	0.22	mg/Kg dry	2.12	ND	56.2	40-140			
Anthracene	1.30	0.22	mg/Kg dry	2.12	ND	61.5	40-140			
Benzo(a)anthracene	1.32	0.22	mg/Kg dry	2.12	ND	62.4	40-140			
Benzo(a)pyrene	1.35	0.22	mg/Kg dry	2.12	ND	63.7	40-140			
Benzo(b)fluoranthene	1.31	0.22	mg/Kg dry	2.12	ND	61.9	40-140			
Benzo(g,h,i)perylene	1.27	0.22	mg/Kg dry	2.12	ND	60.1	40-140			
Benzo(k)fluoranthene	1.35	0.22	mg/Kg dry	2.12	ND	63.9	40-140			
Chrysene	1.29	0.22	mg/Kg dry	2.12	ND	60.9	40-140			
Dibenz(a,h)anthracene	1.17	0.22	mg/Kg dry	2.12	ND	55.0	40-140			
Fluoranthene	1.31	0.22	mg/Kg dry	2.12	ND	62.0	40-140			
Fluorene	1.20	0.22	mg/Kg dry	2.12	ND	56.8	40-140			
Indeno(1,2,3-cd)pyrene	1.21	0.22	mg/Kg dry	2.12	ND	57.3	40-140			
2-Methylnaphthalene	1.28	0.22	mg/Kg dry	2.12	ND	60.3	40-140			
Naphthalene	1.26	0.22	mg/Kg dry	2.12	ND	59.6	40-140			
Phenanthrene	1.47	0.22	mg/Kg dry	2.12	0.231	58.6	40-140			
Pyrene	1.32	0.22	mg/Kg dry	2.12	0.121	56.7	40-140			
Surrogate: Nitrobenzene-d5	2.91		mg/Kg dry	4.24		68.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg dry	4.24		53.0	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg dry	4.24		61.9	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 B216870 - SW-846 3546										
Matrix Spike Dup (B216870-MSD1)	Source: 18K0426-07			Prepared: 11/09/18 Analyzed: 11/12/18						
Acenaphthene	1.14	0.22	mg/Kg dry	2.11	ND	53.9	40-140	0.773	30	
Acenaphthylene	1.18	0.22	mg/Kg dry	2.11	ND	55.8	40-140	0.935	30	
Anthracene	1.29	0.22	mg/Kg dry	2.11	ND	61.0	40-140	1.05	30	
Benzo(a)anthracene	1.31	0.22	mg/Kg dry	2.11	ND	61.8	40-140	1.26	30	
Benzo(a)pyrene	1.32	0.22	mg/Kg dry	2.11	ND	62.6	40-140	2.16	30	
Benzo(b)fluoranthene	1.29	0.22	mg/Kg dry	2.11	ND	61.0	40-140	1.70	30	
Benzo(g,h,i)perylene	1.26	0.22	mg/Kg dry	2.11	ND	59.5	40-140	1.33	30	
Benzo(k)fluoranthene	1.33	0.22	mg/Kg dry	2.11	ND	62.8	40-140	2.03	30	
Chrysene	1.28	0.22	mg/Kg dry	2.11	ND	60.4	40-140	1.15	30	
Dibenz(a,h)anthracene	1.14	0.22	mg/Kg dry	2.11	ND	54.0	40-140	2.13	30	
Fluoranthene	1.29	0.22	mg/Kg dry	2.11	ND	61.2	40-140	1.63	30	
Fluorene	1.17	0.22	mg/Kg dry	2.11	ND	55.6	40-140	2.57	30	
Indeno(1,2,3-cd)pyrene	1.19	0.22	mg/Kg dry	2.11	ND	56.2	40-140	2.27	30	
2-Methylnaphthalene	1.28	0.22	mg/Kg dry	2.11	ND	60.4	40-140	0.229	30	
Naphthalene	1.28	0.22	mg/Kg dry	2.11	ND	60.8	40-140	1.70	30	
Phenanthrene	1.46	0.22	mg/Kg dry	2.11	0.231	58.2	40-140	0.905	30	
Pyrene	1.31	0.22	mg/Kg dry	2.11	0.121	56.5	40-140	0.585	30	
Surrogate: Nitrobenzene-d5	2.90		mg/Kg dry	4.23		68.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg dry	4.23		52.1	30-130			
Surrogate: p-Terphenyl-d14	2.64		mg/Kg dry	4.23		62.5	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216874 - SW-846 3546										
Blank (B216874-BLK1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.0	30-150			
LCS (B216874-BS1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDE [2C]	0.092	0.0040	mg/Kg wet	0.100		92.2	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDT [2C]	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140			
Endosulfan I	0.092	0.0050	mg/Kg wet	0.100		91.9	40-140			
Endosulfan I [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		93.5	40-140			
Endosulfan II [2C]	0.089	0.0080	mg/Kg wet	0.100		89.2	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			
LCS Dup (B216874-BSD1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
4,4'-DDE	0.099	0.0040	mg/Kg wet	0.100		99.0	40-140	1.93	30	
4,4'-DDE [2C]	0.091	0.0040	mg/Kg wet	0.100		90.9	40-140	1.33	30	
4,4'-DDT	0.094	0.0040	mg/Kg wet	0.100		93.5	40-140	8.10	30	
4,4'-DDT [2C]	0.087	0.0040	mg/Kg wet	0.100		86.7	40-140	8.13	30	
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	3.66	30	
Endosulfan I [2C]	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140	2.37	30	
Endosulfan II	0.089	0.0080	mg/Kg wet	0.100		89.0	40-140	4.90	30	
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		85.0	40-140	4.83	30	
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.5	30-150			
Matrix Spike (B216874-MS1)										
Source: 18K0426-07 Prepared: 11/09/18 Analyzed: 11/11/18										
4,4'-DDE	0.12	0.0048	mg/Kg dry	0.120	ND	101	30-150			
4,4'-DDE [2C]	0.11	0.0048	mg/Kg dry	0.120	ND	91.9	30-150			
4,4'-DDT	0.042	0.0048	mg/Kg dry	0.120	ND	34.6	30-150			R-06
4,4'-DDT [2C]	0.041	0.0048	mg/Kg dry	0.120	ND	34.4	30-150			R-06
Endosulfan I	0.076	0.0060	mg/Kg dry	0.120	ND	63.4	30-150			
Endosulfan I [2C]	0.071	0.0060	mg/Kg dry	0.120	ND	59.3	30-150			
Endosulfan II	0.068	0.0096	mg/Kg dry	0.120	ND	56.8	30-150			
Endosulfan II [2C]	0.069	0.0096	mg/Kg dry	0.120	ND	57.4	30-150			
Surrogate: Decachlorobiphenyl	0.176		mg/Kg dry	0.241		73.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg dry	0.241		72.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216874 - SW-846 3546										
Matrix Spike (B216874-MS1)		Source: 18K0426-07			Prepared: 11/09/18 Analyzed: 11/11/18					
Surrogate: Tetrachloro-m-xylene	0.151		mg/Kg dry	0.241		62.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg dry	0.241		59.1	30-150			
Matrix Spike Dup (B216874-MSD1)		Source: 18K0426-07			Prepared: 11/09/18 Analyzed: 11/11/18					
4,4'-DDE	0.13	0.0049	mg/Kg dry	0.123	ND	109	30-150	9.44	30	
4,4'-DDE [2C]	0.12	0.0049	mg/Kg dry	0.123	ND	99.2	30-150	9.54	30	
4,4'-DDT	0.073	0.0049	mg/Kg dry	0.123	ND	59.3	30-150	54.3 *	30	R-06
4,4'-DDT [2C]	0.070	0.0049	mg/Kg dry	0.123	ND	57.4	30-150	51.9 *	30	R-06
Endosulfan I	0.095	0.0061	mg/Kg dry	0.123	ND	77.7	30-150	22.1	30	
Endosulfan I [2C]	0.088	0.0061	mg/Kg dry	0.123	ND	72.0	30-150	21.3	30	
Endosulfan II	0.091	0.0098	mg/Kg dry	0.123	ND	73.7	30-150	27.7	30	
Endosulfan II [2C]	0.089	0.0098	mg/Kg dry	0.123	ND	72.7	30-150	25.3	30	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg dry	0.245		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.215		mg/Kg dry	0.245		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.245		79.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg dry	0.245		74.1	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216878 - % Solids										
Duplicate (B216878-DUP1)	Source: 18K0426-01			Prepared: 11/09/18 Analyzed: 11/10/18						
% Solids	59.7		% Wt		61.4			2.76	20	
Duplicate (B216878-DUP2)	Source: 18K0426-07			Prepared: 11/09/18 Analyzed: 11/10/18						
% Solids	78.8		% Wt		77.6			1.53	20	

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BREAKDOWN REPORT

Lab Sample ID: S029286-PEM1 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.62
Endrin [1] 2.26

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.82
Endrin [2] 2.44

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM2 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.01
Endrin [1] 2.62

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.15
Endrin [2] 2.77

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM4 **Analyzed:** 11/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.67
Endrin [1] 1.77

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BREAKDOWN REPORT

Lab Sample ID: S029286-PEM4 **Analyzed:** 11/10/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.89
Endrin [2] 2.54

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM5 **Analyzed:** 11/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.95
Endrin [1] 2.62

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.25
Endrin [2] 3.01

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM6 **Analyzed:** 11/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.20
Endrin [1] 2.70

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.08
Endrin [2] 3.09

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216874-BS1 Date(s) Analyzed 11/10/2018 11/10/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.274	7.245	7.305	0.10	
	2	7.290	7.260	7.320	0.092	8.3
4,4'-DDT	1	7.956	7.926	7.986	0.10	
	2	7.985	7.955	8.015	0.094	6.2
Endosulfan I	1	7.337	7.307	7.367	0.092	
	2	7.209	7.179	7.239	0.085	7.9
Endosulfan II	1	7.879	7.848	7.908	0.093	
	2	7.819	7.789	7.849	0.089	5.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B216874-BSD1 Date(s) Analyzed 11/10/2018 11/10/2018
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.274	7.245	7.305	0.099	
	2	7.290	7.260	7.320	0.091	8.4
4,4'-DDT	1	7.956	7.926	7.986	0.094	
	2	7.985	7.955	8.015	0.087	7.7
Endosulfan I	1	7.337	7.307	7.367	0.089	
	2	7.209	7.179	7.239	0.083	7.0
Endosulfan II	1	7.878	7.848	7.908	0.089	
	2	7.818	7.789	7.849	0.085	4.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B216874-MS1 Date(s) Analyzed 11/11/2018 11/11/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.271	7.242	7.302	0.12	
	2	7.284	7.256	7.316	0.11	8.7
4,4'-DDT	1	7.951	7.924	7.984	0.042	
	2	7.978	7.951	8.011	0.041	2.4
Endosulfan I	1	7.333	7.305	7.365	0.076	
	2	7.202	7.175	7.235	0.071	6.8
Endosulfan II	1	7.874	7.846	7.906	0.068	
	2	7.810	7.784	7.844	0.069	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B216874-MSD1 Date(s) Analyzed 11/11/2018 11/11/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.272	7.242	7.302	0.13	
	2	7.285	7.256	7.316	0.12	8.0
4,4'-DDT	1	7.953	7.924	7.984	0.073	
	2	7.979	7.951	8.011	0.070	4.2
Endosulfan I	1	7.335	7.305	7.365	0.095	
	2	7.203	7.175	7.235	0.088	7.7
Endosulfan II	1	7.876	7.846	7.906	0.091	
	2	7.812	7.784	7.844	0.089	2.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed
Project Number:
Project Manager: Matthew Warren

Con-Test Quote Name/Number: mjw@land-remediation.com
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ethan Bradt

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU_2 Sed- 46-Bottom	11/17/2018 15:44	11/17/2018 15:44	X	X	S	L
2	OU_2 Sed- 47-Bottom	11/17/2018 16:00	11/17/2018 16:00	X	X	S	L
3	OU_2 Sed- 126-Sidewall	11/17/2018 15:39	11/17/2018 15:39	X	X	S	L
4	OU_2 Sed- 127-Sidewall	11/17/2018 15:50	11/17/2018 15:50	X	X	S	L
5	OU_2 Sed- 128-Sidewall	11/17/2018 16:04	11/17/2018 16:04	X	X	S	L
6	OU_2 Sed- 129-Sidewall	11/17/2018 15:55	11/17/2018 15:55	X	X	S	L
7 Sed	OU_2 Sed- 144-Bottom	11/17/2018 16:14	11/17/2018 16:14	X	X	S	L
8	OU_2 Sed- 144-Bottom (MS)	11/17/2018 16:14	11/17/2018 16:14	X	X	S	L
9	OU_2 Sed- 144-Bottom (MSD)	11/17/2018 16:14	11/17/2018 16:14	X	X	S	L
	OU_2 Sed- 145-Bottom	11/17/2018 16:24	11/17/2018 16:24	X	X	S	L
	DUP-4	11/17/2018 16:14	11/17/2018 16:14	X	X	S	L

Comments: *8081: 4-ADDT, 4-ADDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

Date/Time	Signature
11/9/18 5:10	[Signature]
11/9/18 8:10 AM	[Signature]
11/9/18 12:10 PM	[Signature]
11/9/18	[Signature]
11/9/18 1:45	[Signature]
11/9/18 13:40	[Signature]

Requested Turnaround Time
 7-Day 10-Day
Due Date: _____
Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
Data Delivery
 PDF EXCEL
Other: _____
CLP Like Data Plg Required:
Email To: mjw@land-remediation.com
Fax To #: _____

ANALYSIS REQUESTED

8260 Standard* 8081*

8270 PAH

8260 Standard* 8081*

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) _____

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

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3 Container Codes:
 A = Amber Glass
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 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define) _____

18K0926

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD (New York)
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 LAND remediation
 Address: 74 Hudson River Road Waterford, NY

Company Name: [Redacted]
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed
Project Number: [Redacted]
Project Manager: Matthew Warren
Con-Test Quote Name/Number: [Redacted]
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day
Due Date: [Redacted]
Rush-Approval Required: 1-Day 3-Day
 2-Day 4-Day
Data Delivery: PDF EXCEL
Other: [Redacted]
CLP Like Data Pkg Required:
Email To: mjw@land-remediation.com
Fax To #: [Redacted]

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
10	OU_2 Sed-48-Bottom	11/8/18 (14:21)	11/8/18 (14:21)	X	X	S	L
11	OU-2 Sed - 130 - Sidewall	11/8/18 (13:52)	11/8/18 (13:12)	X	X	S	L
12	DUP-5	11/8/18 (13:12)	11/8/18 (13:12)	X	X	S	L
13	DUP-6	11/8/18 (14:21)	11/8/18 (14:21)	X	X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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)

PCB ONLY
 Soxhlet
 Non Soxhlet

Deliverables:
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information:
 AWG STDS
 NYC Sewer Discharge Part. 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

Other: [Redacted]

Relinquished by: [Signature] Date/Time: 11/9/18 (8:07)
Received by: [Signature] Date/Time: 11/9/18 (10:07)
Relinquished by: [Signature] Date/Time: 11/9/18 (12:10)
Received by: [Signature] Date/Time: 11/9/18 (12:10)
Relinquished by: [Signature] Date/Time: 11/9/18 (1:46)
Received by: [Signature] Date/Time: 11/9/18 (3:40)

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By Roy Date 11/9/18 Time 1340

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

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 3.6/4.6
 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? _____
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? T
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>19</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>38</u>	Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	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 3x the volume for samples 10 + 11. But MS/MSD is not notated on COC or samples.

November 12, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0427

Enclosed are results of analyses for samples received by the laboratory on November 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/12/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0427

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

PROJECT LOCATION: OU_2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU_2 Soil-163-Sidewall	18K0427-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU_2 Soil-162-Sidewall	18K0427-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K0427-02[OU_2 Soil-162-Sidewall]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-163-Sidewall

Sampled: 11/7/2018 16:10

Sample ID: 18K0427-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 7:43	MF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 7:43	MF
Xylenes (total)	ND	0.0054		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 7:43	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	112		70-130				11/12/18 7:43			
Toluene-d8	98.0		70-130				11/12/18 7:43			
4-Bromofluorobenzene	97.6		70-130				11/12/18 7:43			

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-163-Sidewall

Sampled: 11/7/2018 16:10

Sample ID: 18K0427-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 12:18	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.7	30-130						11/12/18 12:18	
2-Fluorobiphenyl		58.3	30-130						11/12/18 12:18	
p-Terphenyl-d14		78.5	30-130						11/12/18 12:18	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-163-Sidewall

Sampled: 11/7/2018 16:10

Sample ID: 18K0427-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/9/18	11/11/18 1:07	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.4		30-150						11/11/18 1:07	
Decachlorobiphenyl [2]	64.4		30-150						11/11/18 1:07	
Tetrachloro-m-xylene [1]	57.2		30-150						11/11/18 1:07	
Tetrachloro-m-xylene [2]	53.6		30-150						11/11/18 1:07	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-163-Sidewall

Sampled: 11/7/2018 16:10

Sample ID: 18K0427-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.8	0.41	0.25	mg/Kg dry	1		SW-846 6010D	11/9/18	11/12/18 13:59	QNW

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-163-Sidewall

Sampled: 11/7/2018 16:10

Sample ID: 18K0427-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-162-Sidewall

Sampled: 11/7/2018 16:18

Sample ID: 18K0427-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:11	MF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:11	MF
Xylenes (total)	ND	0.0054		mg/Kg dry	1		SW-846 8260C	11/12/18	11/12/18 8:11	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	111		70-130				11/12/18 8:11			
Toluene-d8	97.1		70-130				11/12/18 8:11			
4-Bromofluorobenzene	97.9		70-130				11/12/18 8:11			

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-162-Sidewall

Sampled: 11/7/2018 16:18

Sample ID: 18K0427-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	8.6	2.3	0.62	mg/Kg dry	10		SW-846 8270D	11/9/18	11/12/18 12:40	BGL
Benzo(a)pyrene	8.2	2.3	0.73	mg/Kg dry	10		SW-846 8270D	11/9/18	11/12/18 12:40	BGL
Benzo(b)fluoranthene	5.2	0.23	0.066	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 11:56	BGL
Benzo(k)fluoranthene	2.0	0.23	0.073	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 11:56	BGL
Chrysene	6.8	2.3	0.73	mg/Kg dry	10		SW-846 8270D	11/9/18	11/12/18 12:40	BGL
Dibenz(a,h)anthracene	0.70	0.23	0.14	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 11:56	BGL
Indeno(1,2,3-cd)pyrene	3.5	0.23	0.17	mg/Kg dry	1		SW-846 8270D	11/9/18	11/12/18 11:56	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	72.8		30-130						11/12/18 11:56	
Nitrobenzene-d5	82.7		30-130						11/12/18 12:40	
2-Fluorobiphenyl	70.6		30-130						11/12/18 11:56	
2-Fluorobiphenyl	65.6		30-130						11/12/18 12:40	
p-Terphenyl-d14	62.0		30-130						11/12/18 11:56	
p-Terphenyl-d14	70.5		30-130						11/12/18 12:40	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-162-Sidewall

Sampled: 11/7/2018 16:18

Sample ID: 18K0427-02

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.067	0.0053	mg/Kg dry	10		SW-846 8081B	11/9/18	11/11/18 1:34	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.1		30-150						11/11/18 1:34	
Decachlorobiphenyl [2]	82.3		30-150						11/11/18 1:34	
Tetrachloro-m-xylene [1]	56.5		30-150						11/11/18 1:34	
Tetrachloro-m-xylene [2]	56.1		30-150						11/11/18 1:34	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-162-Sidewall

Sampled: 11/7/2018 16:18

Sample ID: 18K0427-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.2	0.46	0.28	mg/Kg dry	1		SW-846 6010D	11/9/18	11/12/18 14:04	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0427

Date Received: 11/9/2018

Field Sample #: OU_2 Soil-162-Sidewall

Sampled: 11/7/2018 16:18

Sample ID: 18K0427-02

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	71.3		% Wt	1		SM 2540G	11/9/18	11/10/18 12:24	CJT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0427-01 [OU_2 Soil-163-Sidewall]	B216878	11/09/18
18K0427-02 [OU_2 Soil-162-Sidewall]	B216878	11/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0427-01 [OU_2 Soil-163-Sidewall]	B216877	1.53	50.0	11/09/18
18K0427-02 [OU_2 Soil-162-Sidewall]	B216877	1.52	50.0	11/09/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0427-01 [OU_2 Soil-163-Sidewall]	B216874	10.7	10.0	11/09/18
18K0427-02 [OU_2 Soil-162-Sidewall]	B216874	10.5	10.0	11/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0427-01 [OU_2 Soil-163-Sidewall]	B216968	6.94	10.0	11/12/18
18K0427-02 [OU_2 Soil-162-Sidewall]	B216968	7.73	10.0	11/12/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0427-01 [OU_2 Soil-163-Sidewall]	B216870	30.2	1.00	11/09/18
18K0427-02 [OU_2 Soil-162-Sidewall]	B216870	30.5	1.00	11/09/18
18K0427-02RE1 [OU_2 Soil-162-Sidewall]	B216870	30.5	1.00	11/09/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216968 - SW-846 5035										
Blank (B216968-BLK1)										
Prepared & Analyzed: 11/12/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0546		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0485		mg/Kg wet	0.0500		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.7	70-130			
LCS (B216968-BS1)										
Prepared & Analyzed: 11/12/18										
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.8	70-130			
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0548		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.0	70-130			
LCS Dup (B216968-BSD1)										
Prepared & Analyzed: 11/12/18										
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.4	70-130	0.669	25	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	2.69	25	
Surrogate: 1,2-Dichloroethane-d4	0.0545		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216870 - SW-846 3546

Blank (B216870-BLK1)

Prepared: 11/09/18 Analyzed: 11/12/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.8	30-130			
Surrogate: 2-Fluorobiphenyl	1.81		mg/Kg wet	3.33		54.4	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/Kg wet	3.33		78.2	30-130			

LCS (B216870-BS1)

Prepared: 11/09/18 Analyzed: 11/12/18

Benzo(a)anthracene	0.937	0.17	mg/Kg wet	1.67		56.2	40-140			
Benzo(a)pyrene	0.926	0.17	mg/Kg wet	1.67		55.5	40-140			
Benzo(b)fluoranthene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140			
Benzo(k)fluoranthene	0.893	0.17	mg/Kg wet	1.67		53.6	40-140			
Chrysene	0.901	0.17	mg/Kg wet	1.67		54.1	40-140			
Dibenz(a,h)anthracene	0.923	0.17	mg/Kg wet	1.67		55.4	40-140			
Indeno(1,2,3-cd)pyrene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.59		mg/Kg wet	3.33		47.6	30-130			
Surrogate: p-Terphenyl-d14	1.98		mg/Kg wet	3.33		59.4	30-130			

LCS Dup (B216870-BSD1)

Prepared: 11/09/18 Analyzed: 11/12/18

Benzo(a)anthracene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	4.49	30	
Benzo(a)pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	5.67	30	
Benzo(b)fluoranthene	0.905	0.17	mg/Kg wet	1.67		54.3	40-140	2.24	30	
Benzo(k)fluoranthene	0.934	0.17	mg/Kg wet	1.67		56.1	40-140	4.49	30	
Chrysene	0.952	0.17	mg/Kg wet	1.67		57.1	40-140	5.47	30	
Dibenz(a,h)anthracene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140	4.79	30	
Indeno(1,2,3-cd)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	3.17	30	
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.64		mg/Kg wet	3.33		49.1	30-130			
Surrogate: p-Terphenyl-d14	2.05		mg/Kg wet	3.33		61.5	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216874 - SW-846 3546										
Blank (B216874-BLK1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.0	30-150			
LCS (B216874-BS1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
alpha-BHC	0.069	0.0050	mg/Kg wet	0.100		69.4	40-140			
alpha-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.5	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			
LCS Dup (B216874-BSD1)										
Prepared: 11/09/18 Analyzed: 11/10/18										
alpha-BHC	0.077	0.0050	mg/Kg wet	0.100		76.6	40-140	9.91	30	
alpha-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		74.2	40-140	9.46	30	
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.5	30-150			

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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 B216877 - SW-846 3050B										
Blank (B216877-BLK1)					Prepared: 11/09/18 Analyzed: 11/12/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B216877-BS1)					Prepared: 11/09/18 Analyzed: 11/12/18					
Chromium	126	0.99	mg/Kg wet	136		92.6	82.4-117.6			
LCS Dup (B216877-BSD1)					Prepared: 11/09/18 Analyzed: 11/12/18					
Chromium	128	0.99	mg/Kg wet	136		94.0	82.4-117.6	1.49	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216878 - % Solids

Duplicate (B216878-DUP3)

Source: 18K0427-02

Prepared: 11/09/18 Analyzed: 11/10/18

% Solids	72.9		% Wt		71.3			2.21	20	
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BREAKDOWN REPORT

Lab Sample ID: S029286-PEM1 Analyzed: 11/09/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	0.62
Endrin [1]	2.26

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	0.82
Endrin [2]	2.44

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM2 Analyzed: 11/09/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.01
Endrin [1]	2.62

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.15
Endrin [2]	2.77

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM4 Analyzed: 11/10/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	0.67
Endrin [1]	1.77

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BREAKDOWN REPORT

Lab Sample ID: S029286-PEM4 **Analyzed:** 11/10/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.89
Endrin [2] 2.54

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM5 **Analyzed:** 11/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.95
Endrin [1] 2.62

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.25
Endrin [2] 3.01

BREAKDOWN REPORT

Lab Sample ID: S029286-PEM6 **Analyzed:** 11/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.20
Endrin [1] 2.70

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.08
Endrin [2] 3.09

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216874-BS1 Date(s) Analyzed 11/10/2018 11/10/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.806	5.777	5.837	0.069	
	2	5.726	5.697	5.757	0.068	1.5

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216874-BSD1 Date(s) Analyzed 11/10/2018 11/10/2018
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.806	5.777	5.837	0.077	
	2	5.727	5.697	5.757	0.074	4.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND remediation

Company Name: LAND remediation

Address: 74 Hudson River Road Waterford, NY

Phone:

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: OU_2 Soil

Project Number:

Project Manager: Matthew Warren

Con-Test Quote Name/Number:

Invoice Recipient: mjw@land-remediation.com

Sampled By: Ethan Bradt

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

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

Data Delivery:
Format: PDF EXCEL
Other:

CLP Like Data Pkg Required:

Email To: mjw@land-remediation.com

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU_2 Soil -163- Sidewall	11/17/18 (16:10)	11/17/18 (16:10)		X	S	L
2	OU-2 Soil -162- Sidewall	11/17/18 (16:18)	11/17/18 (16:18)		X	S	L

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)flouranthene, Benzo(k)flouranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

ANALYSIS REQUESTED

8081 - Alpha-BHC Only

8260 - Xylenes Only + total Xylene

8270 PAH

Chromium 6010

of Containers

1 Preservation Code

2 Container Code

Dissolved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

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

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

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

18K0427

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)
39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

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

Deliverables:
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information:
 AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

Other:

Relinquished by: (signature) *Cathy...* Date/Time: 11/19/18 (5:10)

Received by: (signature) *[Signature]* Date/Time: 11-18 8:18 AM

Relinquished by: (signature) *[Signature]* Date/Time: 11-18 12:10 PM

Received by: (signature) *[Signature]* Date/Time: 11/19/18 12:20

Relinquished by: (signature) *[Signature]* Date/Time: 11/19/18 140

Received by: (signature) *[Signature]* Date/Time: 11/19/18 1340

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By Rap Date 11/9/18 Time 1340

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

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 36
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? Mike M, Alex

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	4	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		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:

November 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0694

Enclosed are results of analyses for samples received by the laboratory on November 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0694

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

PROJECT LOCATION: OU_2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU-2 Soil-131-Sidewall	18K0694-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU-2 Soil-132-Sidewall	18K0694-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU-2 Soil-133-Sidewall	18K0694-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU-2 Soil-134-Sidewall	18K0694-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU-2 Soil-135-Sidewall	18K0694-05	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K0694-03[OU-2 Soil-133-Sidewall], 18K0694-04[OU-2 Soil-134-Sidewall], 18K0694-05[OU-2 Soil-135-Sidewall]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-131-Sidewall

Sampled: 11/13/2018 14:38

Sample ID: 18K0694-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 7:55	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 7:55	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 7:55	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	110		70-130				11/19/18 7:55			
Toluene-d8	98.3		70-130				11/19/18 7:55			
4-Bromofluorobenzene	99.4		70-130				11/19/18 7:55			

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-131-Sidewall

Sampled: 11/13/2018 14:38

Sample ID: 18K0694-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	0.060	0.21	0.056	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:04	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	79.6	30-130	
2-Fluorobiphenyl	63.5	30-130	
p-Terphenyl-d14	89.2	30-130	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-131-Sidewall

Sampled: 11/13/2018 14:38

Sample ID: 18K0694-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 20:43	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.6		30-150						11/17/18 20:43	
Decachlorobiphenyl [2]	73.5		30-150						11/17/18 20:43	
Tetrachloro-m-xylene [1]	72.6		30-150						11/17/18 20:43	
Tetrachloro-m-xylene [2]	56.6		30-150						11/17/18 20:43	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-131-Sidewall

Sampled: 11/13/2018 14:38

Sample ID: 18K0694-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.0	0.42	0.26	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 14:23	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-131-Sidewall

Sampled: 11/13/2018 14:38

Sample ID: 18K0694-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	11/16/18	11/17/18 12:39	CJT

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-132-Sidewall

Sampled: 11/13/2018 14:18

Sample ID: 18K0694-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:22	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:22	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:22	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	109		70-130				11/19/18 8:22			
Toluene-d8	98.6		70-130				11/19/18 8:22			
4-Bromofluorobenzene	101		70-130				11/19/18 8:22			

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-132-Sidewall

Sampled: 11/13/2018 14:18

Sample ID: 18K0694-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Benzo(a)pyrene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Benzo(k)fluoranthene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Chrysene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:28	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		81.7	30-130						11/17/18 15:28	
2-Fluorobiphenyl		62.9	30-130						11/17/18 15:28	
p-Terphenyl-d14		97.9	30-130						11/17/18 15:28	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-132-Sidewall

Sampled: 11/13/2018 14:18

Sample ID: 18K0694-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 21:10	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.8		30-150						11/17/18 21:10	
Decachlorobiphenyl [2]	87.2		30-150						11/17/18 21:10	
Tetrachloro-m-xylene [1]	88.7		30-150						11/17/18 21:10	
Tetrachloro-m-xylene [2]	69.8		30-150						11/17/18 21:10	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-132-Sidewall

Sampled: 11/13/2018 14:18

Sample ID: 18K0694-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	6.4	0.44	0.27	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 14:28	QNW

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-132-Sidewall

Sampled: 11/13/2018 14:18

Sample ID: 18K0694-02

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	76.1		% Wt	1		SM 2540G	11/16/18	11/17/18 12:40	CJT

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-133-Sidewall

Sampled: 11/13/2018 14:47

Sample ID: 18K0694-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0059	0.0025	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:50	MF
o-Xylene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:50	MF
Xylenes (total)	ND	0.0088		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 8:50	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	111		70-130				11/19/18 8:50			
Toluene-d8	98.2		70-130				11/19/18 8:50			
4-Bromofluorobenzene	96.7		70-130				11/19/18 8:50			

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-133-Sidewall

Sampled: 11/13/2018 14:47

Sample ID: 18K0694-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Benzo(a)pyrene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Benzo(b)fluoranthene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Benzo(k)fluoranthene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Chrysene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Dibenz(a,h)anthracene	ND	0.39	0.24	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Indeno(1,2,3-cd)pyrene	ND	0.39	0.28	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 15:51	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		83.8	30-130						11/17/18 15:51	
2-Fluorobiphenyl		57.5	30-130						11/17/18 15:51	
p-Terphenyl-d14		62.6	30-130						11/17/18 15:51	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-133-Sidewall

Sampled: 11/13/2018 14:47

Sample ID: 18K0694-03

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.11	0.0091	mg/Kg dry	10		SW-846 8081B	11/16/18	11/17/18 21:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.6		30-150						11/17/18 21:37	
Decachlorobiphenyl [2]	75.6		30-150						11/17/18 21:37	
Tetrachloro-m-xylene [1]	72.2		30-150						11/17/18 21:37	
Tetrachloro-m-xylene [2]	55.1		30-150						11/17/18 21:37	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-133-Sidewall

Sampled: 11/13/2018 14:47

Sample ID: 18K0694-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.7	0.77	0.48	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 14:33	QNW

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-133-Sidewall

Sampled: 11/13/2018 14:47

Sample ID: 18K0694-03

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	43.0		% Wt	1		SM 2540G	11/16/18	11/17/18 12:40	CJT

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-134-Sidewall

Sampled: 11/13/2018 15:46

Sample ID: 18K0694-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0068	0.0029	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:17	MF
o-Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:17	MF
Xylenes (total)	ND	0.010		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:17	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	106		70-130				11/19/18 9:17			
Toluene-d8	96.4		70-130				11/19/18 9:17			
4-Bromofluorobenzene	98.1		70-130				11/19/18 9:17			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-134-Sidewall

Sampled: 11/13/2018 15:46

Sample ID: 18K0694-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.30	0.081	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Benzo(a)pyrene	ND	0.30	0.095	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Benzo(b)fluoranthene	ND	0.30	0.086	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Benzo(k)fluoranthene	ND	0.30	0.095	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Chrysene	ND	0.30	0.095	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Dibenz(a,h)anthracene	ND	0.30	0.19	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.30	0.22	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:14	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		91.5	30-130						11/17/18 16:14	
2-Fluorobiphenyl		58.4	30-130						11/17/18 16:14	
p-Terphenyl-d14		60.6	30-130						11/17/18 16:14	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-134-Sidewall

Sampled: 11/13/2018 15:46

Sample ID: 18K0694-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.18	0.014	mg/Kg dry	20		SW-846 8081B	11/16/18	11/17/18 22:04	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	89.6		30-150						11/17/18 22:04	
Decachlorobiphenyl [2]	90.6		30-150						11/17/18 22:04	
Tetrachloro-m-xylene [1]	87.9		30-150						11/17/18 22:04	
Tetrachloro-m-xylene [2]	79.5		30-150						11/17/18 22:04	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-134-Sidewall

Sampled: 11/13/2018 15:46

Sample ID: 18K0694-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	1.8	0.62	0.38	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 15:08	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-134-Sidewall

Sampled: 11/13/2018 15:46

Sample ID: 18K0694-04

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	54.1		% Wt	1		SM 2540G	11/16/18	11/17/18 12:40	CJT

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-135-Sidewall

Sampled: 11/13/2018 16:05

Sample ID: 18K0694-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:45	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:45	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:45	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	105		70-130					11/19/18	9:45	
Toluene-d8	99.2		70-130					11/19/18	9:45	
4-Bromofluorobenzene	99.2		70-130					11/19/18	9:45	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-135-Sidewall

Sampled: 11/13/2018 16:05

Sample ID: 18K0694-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.23	0.062	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Benzo(a)pyrene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Benzo(b)fluoranthene	ND	0.23	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Benzo(k)fluoranthene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Chrysene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.17	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 16:37	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		89.3	30-130						11/17/18 16:37	
2-Fluorobiphenyl		65.7	30-130						11/17/18 16:37	
p-Terphenyl-d14		76.6	30-130						11/17/18 16:37	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-135-Sidewall

Sampled: 11/13/2018 16:05

Sample ID: 18K0694-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.067	0.0053	mg/Kg dry	10		SW-846 8081B	11/16/18	11/17/18 22:31	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.3		30-150						11/17/18 22:31	
Decachlorobiphenyl [2]	81.0		30-150						11/17/18 22:31	
Tetrachloro-m-xylene [1]	73.6		30-150						11/17/18 22:31	
Tetrachloro-m-xylene [2]	56.9		30-150						11/17/18 22:31	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-135-Sidewall

Sampled: 11/13/2018 16:05

Sample ID: 18K0694-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.2	0.46	0.28	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 15:14	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0694

Date Received: 11/16/2018

Field Sample #: OU-2 Soil-135-Sidewall

Sampled: 11/13/2018 16:05

Sample ID: 18K0694-05

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	72.0		% Wt	1		SM 2540G	11/16/18	11/17/18 12:40	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0694-01 [OU-2 Soil-131-Sidewall]	B217450	11/16/18
18K0694-02 [OU-2 Soil-132-Sidewall]	B217450	11/16/18
18K0694-03 [OU-2 Soil-133-Sidewall]	B217450	11/16/18
18K0694-04 [OU-2 Soil-134-Sidewall]	B217450	11/16/18
18K0694-05 [OU-2 Soil-135-Sidewall]	B217450	11/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0694-01 [OU-2 Soil-131-Sidewall]	B217444	1.50	50.0	11/16/18
18K0694-02 [OU-2 Soil-132-Sidewall]	B217444	1.50	50.0	11/16/18
18K0694-03 [OU-2 Soil-133-Sidewall]	B217444	1.51	50.0	11/16/18
18K0694-04 [OU-2 Soil-134-Sidewall]	B217444	1.49	50.0	11/16/18
18K0694-05 [OU-2 Soil-135-Sidewall]	B217444	1.50	50.0	11/16/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0694-01 [OU-2 Soil-131-Sidewall]	B217432	10.9	10.0	11/16/18
18K0694-02 [OU-2 Soil-132-Sidewall]	B217432	10.1	10.0	11/16/18
18K0694-03 [OU-2 Soil-133-Sidewall]	B217432	10.2	10.0	11/16/18
18K0694-04 [OU-2 Soil-134-Sidewall]	B217432	10.4	10.0	11/16/18
18K0694-05 [OU-2 Soil-135-Sidewall]	B217432	10.4	10.0	11/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0694-01 [OU-2 Soil-131-Sidewall]	B217503	8.35	10.0	11/19/18
18K0694-02 [OU-2 Soil-132-Sidewall]	B217503	8.20	10.0	11/19/18
18K0694-03 [OU-2 Soil-133-Sidewall]	B217503	7.92	10.0	11/19/18
18K0694-04 [OU-2 Soil-134-Sidewall]	B217503	5.41	10.0	11/19/18
18K0694-05 [OU-2 Soil-135-Sidewall]	B217503	8.87	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0694-01 [OU-2 Soil-131-Sidewall]	B217429	30.3	1.00	11/16/18
18K0694-02 [OU-2 Soil-132-Sidewall]	B217429	30.0	1.00	11/16/18
18K0694-03 [OU-2 Soil-133-Sidewall]	B217429	30.3	1.00	11/16/18
18K0694-04 [OU-2 Soil-134-Sidewall]	B217429	30.9	1.00	11/16/18
18K0694-05 [OU-2 Soil-135-Sidewall]	B217429	30.3	1.00	11/16/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217503 - SW-846 5035										
Blank (B217503-BLK1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0529		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.7	70-130			
LCS (B217503-BS1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.4	70-130			
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0523		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			
LCS Dup (B217503-BSD1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0384	0.0040	mg/Kg wet	0.0400		96.0	70-130	3.43	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	5.90	25	
Surrogate: 1,2-Dichloroethane-d4	0.0543		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.0	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217429 - SW-846 3546

Blank (B217429-BLK1)

Prepared: 11/16/18 Analyzed: 11/17/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.33		65.5	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/Kg wet	3.33		104	30-130			

LCS (B217429-BS1)

Prepared: 11/16/18 Analyzed: 11/17/18

Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.5	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg wet	3.33		88.9	30-130			

LCS Dup (B217429-BSD1)

Prepared: 11/16/18 Analyzed: 11/17/18

Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	5.91	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	8.42	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	7.29	30	
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	6.93	30	
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	5.03	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	7.40	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	7.36	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.2	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217432 - SW-846 3546										
Blank (B217432-BLK1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			
LCS (B217432-BS1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
alpha-BHC	0.083	0.0050	mg/Kg wet	0.100		83.2	40-140			
alpha-BHC [2C]	0.078	0.0050	mg/Kg wet	0.100		78.5	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			
LCS Dup (B217432-BSD1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
alpha-BHC	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	0.185	30	
alpha-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		76.5	40-140	2.49	30	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			

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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 B217444 - SW-846 3050B										
Blank (B217444-BLK1)										
					Prepared: 11/16/18 Analyzed: 11/19/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B217444-BS1)										
					Prepared: 11/16/18 Analyzed: 11/19/18					
Chromium	134	0.98	mg/Kg wet	136		98.4	82.4-117.6			
LCS Dup (B217444-BSD1)										
					Prepared: 11/16/18 Analyzed: 11/19/18					
Chromium	134	0.98	mg/Kg wet	136		98.5	82.4-117.6	0.136	30	

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BREAKDOWN REPORT

Lab Sample ID: S029490-PEM1 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.99
Endrin [1] 3.79

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.57
Endrin [2] 4.12

BREAKDOWN REPORT

Lab Sample ID: S029490-PEM2 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.15
Endrin [1] 4.56

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.60
Endrin [2] 4.73

BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 4.56

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BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 **Analyzed:** 11/19/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.39
Endrin [2]	5.01

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217432-BS1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.798	5.769	5.829	0.083	
	2	5.715	5.687	5.747	0.078	6.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B217432-BSD1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.798	5.769	5.829	0.083	
	2	5.716	5.687	5.747	0.077	7.5

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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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18 K0694

39 Spruce Street
East Longmeadow, MA 01028

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone: NYSDEC Saranac Lake Gas Co.
Project Name: OU_2 Soil
Project Location: Matthew Warren
Project Number:
Project Manager:
Con-Test Quote Name/Number: mjlw@land-remediation.com
Invoice Recipient:
Sampled By: Ethan Bradt

Requested Turnaround Time: 10-Day
Due Date:
Rush/Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: mjlw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU-2 Soil-131-Sidewall	11/13/18 (14:28)	11/13/18 (14:38)	X	S	L	
2	OU-2 Soil-132-Sidewall	11/13/18 (14:18)	11/13/18 (14:18)	X	S	L	
3	OU-2 Soil-133-Sidewall	11/13/18 (14:47)	11/13/18 (14:47)	X	S	L	
4	OU-2 Soil-134-Sidewall	11/13/18 (15:46)	11/13/18 (15:46)	X	S	L	
5	OU-2 Soil-135-Sidewall	11/13/18 (16:05)	11/13/18 (16:05)	X	S	L	

8081 - Alpha-BHC Only
8260 - Xylenes Only + total Xylene
8270 PAH
Chromium 6010

ANALYSIS REQUESTED

of Containers
Preservation Code
Container Code
Dissolved Metal 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

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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) *Cathy Cook* Date/Time: 11/14/18 8:30
Received by: (signature) *3.9* Date/Time: 11/16/18 10:46
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Program & Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC



813219356030



Delivered
Friday 11/16/2018 at 10:46 am



DELIVERED

Signed for by: B.FAUST

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219356030

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x1-...x4 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/15/2018 by 10:30 am

SHIP DATE
 Wed 11/14/2018

ACTUAL DELIVERY
Fri 11/16/2018 10:46 am

Travel History

Local Scan Time

Friday, 11/16/2018		
10:46 am	MA	Delivered
8:08 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:55 am	WINDSOR LOCKS, CT	At local FedEx facility
Thursday, 11/15/2018		
11:28 am	EAST GRANBY, CT	At destination sort facility
9:52 am	INDIANAPOLIS, IN	Departed FedEx location

Note for Con-Test Labs

Samples 131,132,133,134, and 135 are all SOIL samples. While they correctly labeled on the chain of custody, on the jars they are all labeled as sediments, and are incorrectly labeled to receive the associated testing. I STRONGLY urge you to use the chain of custody as your primary guide in this regard. If you have any questions, I can be reached at:

ijkl@land-remediation.com

I hope this inconvenience is of no major consequence. Again, follow along with the chain of custody and we should all be good. 131-135 are SOIL samples, and should receive testing for soil samples.

Cody Carpenter

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation
 Received By RAP Date 11/16/18 Time 1046
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? 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 + 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? Ashly
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>5</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>10</u>	Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	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:

Turnaround time changed to 2 days per A.L.B.

November 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0695

Enclosed are results of analyses for samples received by the laboratory on November 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0695

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-51-Bottom	18K0695-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-8	18K0695-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Sed-50-Bottom	18K0695-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-7	18K0695-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Sed-49-Bottom	18K0695-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
DUP-8	18K0695-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**4,4'-DDE**

18K0695-03[OU2-Sed-50-Bottom], B217432-MS2, B217432-MSD2

4,4'-DDE [2C]

18K0695-03[OU2-Sed-50-Bottom], B217432-MS2, B217432-MSD2

4,4'-DDT

18K0695-03[OU2-Sed-50-Bottom], B217432-MS2, B217432-MSD2

4,4'-DDT [2C]

18K0695-03[OU2-Sed-50-Bottom], B217432-MS2, B217432-MSD2

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**4,4'-DDE**

B217432-MS1, B217432-MS2, B217432-MS3, B217432-MSD1, B217432-MSD2, B217432-MSD3

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-SED-51-Bottom

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
Ethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
Toluene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
o-Xylene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
Xylenes (total)	ND	0.0049		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					11/19/18	9:32	
Toluene-d8		97.0	70-130					11/19/18	9:32	
4-Bromofluorobenzene		103	70-130					11/19/18	9:32	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-SED-51-Bottom

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 17:47	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		94.6	30-130						11/17/18 17:47	
2-Fluorobiphenyl		72.8	30-130						11/17/18 17:47	
p-Terphenyl-d14		104	30-130						11/17/18 17:47	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-SED-51-Bottom

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 22:58	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 22:58	TG
Endosulfan I [1]	0.0058	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 22:58	TG
Endosulfan II [1]	ND	0.0092	0.00034	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 22:58	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.7		30-150						11/17/18 22:58	
Decachlorobiphenyl [2]	73.3		30-150						11/17/18 22:58	
Tetrachloro-m-xylene [1]	75.5		30-150						11/17/18 22:58	
Tetrachloro-m-xylene [2]	63.5		30-150						11/17/18 22:58	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-SED-51-Bottom

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-01

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	81.4		% Wt	1		SM 2540G	11/16/18	11/17/18 12:40	CJT

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 9:57	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130					11/19/18	9:57	
Toluene-d8		97.6	70-130					11/19/18	9:57	
4-Bromofluorobenzene		104	70-130					11/19/18	9:57	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:10	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		94.8	30-130						11/17/18 18:10	
2-Fluorobiphenyl		74.4	30-130						11/17/18 18:10	
p-Terphenyl-d14		103	30-130						11/17/18 18:10	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:38

Sample ID: 18K0695-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:25	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:25	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:25	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:25	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.6		30-150						11/17/18 23:25	
Decachlorobiphenyl [2]	85.1		30-150						11/17/18 23:25	
Tetrachloro-m-xylene [1]	82.6		30-150						11/17/18 23:25	
Tetrachloro-m-xylene [2]	72.2		30-150						11/17/18 23:25	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Sampled: 11/13/2018 14:38

Field Sample #: DUP-8

Sample ID: 18K0695-02

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	82.9		% Wt	1		SM 2540G	11/16/18	11/17/18 12:41	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-50-Bottom

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:22	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					11/19/18	10:22	
Toluene-d8		97.4	70-130					11/19/18	10:22	
4-Bromofluorobenzene		107	70-130					11/19/18	10:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-50-Bottom

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Dibenz(a,h)anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:34	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		101	30-130						11/17/18 18:34	
2-Fluorobiphenyl		79.9	30-130						11/17/18 18:34	
p-Terphenyl-d14		110	30-130						11/17/18 18:34	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-50-Bottom

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1	R-06	SW-846 8081B	11/16/18	11/17/18 23:52	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1	R-06	SW-846 8081B	11/16/18	11/17/18 23:52	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:52	TG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	11/16/18	11/17/18 23:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.2		30-150						11/17/18 23:52	
Decachlorobiphenyl [2]	91.6		30-150						11/17/18 23:52	
Tetrachloro-m-xylene [1]	92.4		30-150						11/17/18 23:52	
Tetrachloro-m-xylene [2]	83.7		30-150						11/17/18 23:52	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-50-Bottom

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-03

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	81.8		% Wt	1		SM 2540G	11/16/18	11/17/18 12:41	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-7

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
m+p Xylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:47	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					11/19/18	10:47	
Toluene-d8		98.5	70-130					11/19/18	10:47	
4-Bromofluorobenzene		106	70-130					11/19/18	10:47	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-7

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 18:57	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		97.4	30-130						11/17/18 18:57	
2-Fluorobiphenyl		78.1	30-130						11/17/18 18:57	
p-Terphenyl-d14		109	30-130						11/17/18 18:57	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-7

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:19	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:19	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:19	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:19	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.9		30-150						11/18/18 0:19	
Decachlorobiphenyl [2]	76.4		30-150						11/18/18 0:19	
Tetrachloro-m-xylene [1]	76.3		30-150						11/18/18 0:19	
Tetrachloro-m-xylene [2]	71.9		30-150						11/18/18 0:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-7

Sampled: 11/13/2018 14:55

Sample ID: 18K0695-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	11/16/18	11/17/18 12:41	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-49-Bottom

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:12	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					11/19/18	11:12	
Toluene-d8		98.2	70-130					11/19/18	11:12	
4-Bromofluorobenzene		105	70-130					11/19/18	11:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-49-Bottom

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Acenaphthylene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Anthracene	0.081	0.22	0.064	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Benzo(a)pyrene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Benzo(g,h,i)perylene	ND	0.22	0.099	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Benzo(k)fluoranthene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Chrysene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Fluoranthene	0.16	0.22	0.074	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
2-Methylnaphthalene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Phenanthrene	0.29	0.22	0.12	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Pyrene	0.38	0.22	0.074	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:20	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	91.7		30-130				11/17/18 19:20			
2-Fluorobiphenyl	70.6		30-130				11/17/18 19:20			
p-Terphenyl-d14	95.1		30-130				11/17/18 19:20			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-49-Bottom

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00039	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:45	TG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:45	TG
Endosulfan I [1]	ND	0.0064	0.00051	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:45	TG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	11/16/18	11/18/18 0:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	70.4		30-150						11/18/18 0:45	
Decachlorobiphenyl [2]	69.7		30-150						11/18/18 0:45	
Tetrachloro-m-xylene [1]	70.9		30-150						11/18/18 0:45	
Tetrachloro-m-xylene [2]	60.7		30-150						11/18/18 0:45	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: OU2-Sed-49-Bottom

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-05

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	75.6		% Wt	1		SM 2540G	11/16/18	11/17/18 12:41	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:37	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		98.4	70-130					11/19/18	11:37	
Toluene-d8		98.4	70-130					11/19/18	11:37	
4-Bromofluorobenzene		101	70-130					11/19/18	11:37	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Anthracene	0.076	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Fluoranthene	0.14	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Naphthalene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Phenanthrene	0.27	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Pyrene	0.32	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 19:43	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		93.2	30-130						11/17/18 19:43	
2-Fluorobiphenyl		73.6	30-130						11/17/18 19:43	
p-Terphenyl-d14		103	30-130						11/17/18 19:43	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Field Sample #: DUP-8

Sampled: 11/13/2018 14:22

Sample ID: 18K0695-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 7:58	TG
4,4'-DDT [2]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 7:58	TG
Endosulfan I [2]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 7:58	TG
Endosulfan II [2]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 7:58	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.1		30-150					11/19/18	7:58	
Decachlorobiphenyl [2]	87.4		30-150					11/19/18	7:58	
Tetrachloro-m-xylene [1]	81.5		30-150					11/19/18	7:58	
Tetrachloro-m-xylene [2]	74.9		30-150					11/19/18	7:58	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0695

Date Received: 11/16/2018

Sampled: 11/13/2018 14:22

Field Sample #: DUP-8

Sample ID: 18K0695-06

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	81.0		% Wt	1		SM 2540G	11/16/18	11/17/18 12:42	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0695-01 [OU2-SED-51-Bottom]	B217450	11/16/18
18K0695-02 [DUP-8]	B217450	11/16/18
18K0695-03 [OU2-Sed-50-Bottom]	B217450	11/16/18
18K0695-04 [DUP-7]	B217450	11/16/18
18K0695-05 [OU2-Sed-49-Bottom]	B217450	11/16/18
18K0695-06 [DUP-8]	B217450	11/16/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0695-01 [OU2-SED-51-Bottom]	B217432	10.7	10.0	11/16/18
18K0695-02 [DUP-8]	B217432	10.1	10.0	11/16/18
18K0695-03 [OU2-Sed-50-Bottom]	B217432	10.0	10.0	11/16/18
18K0695-04 [DUP-7]	B217432	10.2	10.0	11/16/18
18K0695-05 [OU2-Sed-49-Bottom]	B217432	10.3	10.0	11/16/18
18K0695-06 [DUP-8]	B217432	10.3	10.0	11/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0695-01 [OU2-SED-51-Bottom]	B217529	7.45	10.0	11/19/18
18K0695-02 [DUP-8]	B217529	8.47	10.0	11/19/18
18K0695-03 [OU2-Sed-50-Bottom]	B217529	8.03	10.0	11/19/18
18K0695-04 [DUP-7]	B217529	7.75	10.0	11/19/18
18K0695-05 [OU2-Sed-49-Bottom]	B217529	8.47	10.0	11/19/18
18K0695-06 [DUP-8]	B217529	8.40	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0695-01 [OU2-SED-51-Bottom]	B217429	30.2	1.00	11/16/18
18K0695-02 [DUP-8]	B217429	30.5	1.00	11/16/18
18K0695-03 [OU2-Sed-50-Bottom]	B217429	30.5	1.00	11/16/18
18K0695-04 [DUP-7]	B217429	30.1	1.00	11/16/18
18K0695-05 [OU2-Sed-49-Bottom]	B217429	30.2	1.00	11/16/18
18K0695-06 [DUP-8]	B217429	30.7	1.00	11/16/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217529 - SW-846 5035										
Blank (B217529-BLK1)										
Prepared & Analyzed: 11/19/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0524		mg/Kg wet	0.0500		105	70-130			
LCS (B217529-BS1)										
Prepared & Analyzed: 11/19/18										
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Isopropylbenzene (Cumene)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0532		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B217529-BSD1)										
Prepared & Analyzed: 11/19/18										
Benzene	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130	8.90	25	
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	12.1	25	
Isopropylbenzene (Cumene)	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	10.7	25	
Toluene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130	6.76	25	
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	9.37	25	
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5	70-130	9.90	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	7.42	25	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
Matrix Spike (B217529-MS1)										
Source: 18K0695-01 Prepared & Analyzed: 11/19/18										
Benzene	0.0155	0.0016	mg/Kg dry	0.0165	ND	93.8	70-130			
Ethylbenzene	0.0159	0.0016	mg/Kg dry	0.0165	ND	96.7	70-130			
Isopropylbenzene (Cumene)	0.0173	0.0016	mg/Kg dry	0.0165	ND	105	70-130			
Toluene	0.0152	0.0016	mg/Kg dry	0.0165	ND	92.0	70-130			
1,2,4-Trimethylbenzene	0.0161	0.0016	mg/Kg dry	0.0165	ND	97.8	70-130			
m+p Xylene	0.0332	0.0033	mg/Kg dry	0.0330	ND	101	70-130			
o-Xylene	0.0162	0.0016	mg/Kg dry	0.0165	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0411		mg/Kg dry	0.0412		99.6	70-130			
Surrogate: Toluene-d8	0.0405		mg/Kg dry	0.0412		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0440		mg/Kg dry	0.0412		107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217529 - SW-846 5035										
Matrix Spike (B217529-MS2)		Source: 18K0695-03			Prepared & Analyzed: 11/19/18					
Benzene	0.0131	0.0015	mg/Kg dry	0.0152	ND	86.2	70-130			
Ethylbenzene	0.0130	0.0015	mg/Kg dry	0.0152	ND	85.5	70-130			
Isopropylbenzene (Cumene)	0.0136	0.0015	mg/Kg dry	0.0152	ND	89.4	70-130			
Toluene	0.0129	0.0015	mg/Kg dry	0.0152	ND	84.5	70-130			
1,2,4-Trimethylbenzene	0.0123	0.0015	mg/Kg dry	0.0152	ND	80.8	70-130			
m+p Xylene	0.0271	0.0030	mg/Kg dry	0.0305	ND	89.1	70-130			
o-Xylene	0.0136	0.0015	mg/Kg dry	0.0152	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		mg/Kg dry	0.0381		98.4	70-130			
Surrogate: Toluene-d8	0.0367		mg/Kg dry	0.0381		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0398		mg/Kg dry	0.0381		105	70-130			
Matrix Spike (B217529-MS3)		Source: 18K0695-05			Prepared & Analyzed: 11/19/18					
Benzene	0.0147	0.0016	mg/Kg dry	0.0156	ND	93.9	70-130			
Ethylbenzene	0.0154	0.0016	mg/Kg dry	0.0156	ND	98.7	70-130			
Isopropylbenzene (Cumene)	0.0163	0.0016	mg/Kg dry	0.0156	ND	105	70-130			
Toluene	0.0147	0.0016	mg/Kg dry	0.0156	ND	94.2	70-130			
1,2,4-Trimethylbenzene	0.0150	0.0016	mg/Kg dry	0.0156	ND	96.3	70-130			
m+p Xylene	0.0319	0.0031	mg/Kg dry	0.0313	ND	102	70-130			
o-Xylene	0.0159	0.0016	mg/Kg dry	0.0156	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		mg/Kg dry	0.0391		102	70-130			
Surrogate: Toluene-d8	0.0388		mg/Kg dry	0.0391		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0410		mg/Kg dry	0.0391		105	70-130			
Matrix Spike Dup (B217529-MSD1)		Source: 18K0695-01			Prepared & Analyzed: 11/19/18					
Benzene	0.0141	0.0016	mg/Kg dry	0.0165	ND	85.7	70-130	9.06	30	
Ethylbenzene	0.0150	0.0016	mg/Kg dry	0.0165	ND	91.2	70-130	5.83	30	
Isopropylbenzene (Cumene)	0.0163	0.0016	mg/Kg dry	0.0165	ND	98.6	70-130	6.45	30	
Toluene	0.0148	0.0016	mg/Kg dry	0.0165	ND	89.6	70-130	2.62	30	
1,2,4-Trimethylbenzene	0.0149	0.0016	mg/Kg dry	0.0165	ND	90.5	70-130	7.72	30	
m+p Xylene	0.0307	0.0033	mg/Kg dry	0.0330	ND	93.2	70-130	7.67	30	
o-Xylene	0.0155	0.0016	mg/Kg dry	0.0165	ND	93.9	70-130	4.54	30	
Surrogate: 1,2-Dichloroethane-d4	0.0412		mg/Kg dry	0.0412		100	70-130			
Surrogate: Toluene-d8	0.0409		mg/Kg dry	0.0412		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0434		mg/Kg dry	0.0412		105	70-130			
Matrix Spike Dup (B217529-MSD2)		Source: 18K0695-03			Prepared & Analyzed: 11/19/18					
Benzene	0.0138	0.0015	mg/Kg dry	0.0152	ND	90.3	70-130	4.70	30	
Ethylbenzene	0.0150	0.0015	mg/Kg dry	0.0152	ND	98.3	70-130	13.9	30	
Isopropylbenzene (Cumene)	0.0163	0.0015	mg/Kg dry	0.0152	ND	107	70-130	17.8	30	
Toluene	0.0145	0.0015	mg/Kg dry	0.0152	ND	95.5	70-130	12.2	30	
1,2,4-Trimethylbenzene	0.0150	0.0015	mg/Kg dry	0.0152	ND	98.4	70-130	19.6	30	
m+p Xylene	0.0311	0.0030	mg/Kg dry	0.0305	ND	102	70-130	13.5	30	
o-Xylene	0.0157	0.0015	mg/Kg dry	0.0152	ND	103	70-130	14.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0375		mg/Kg dry	0.0381		98.5	70-130			
Surrogate: Toluene-d8	0.0373		mg/Kg dry	0.0381		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0406		mg/Kg dry	0.0381		107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217529 - SW-846 5035

Matrix Spike Dup (B217529-MSD3)

Source: 18K0695-05

Prepared & Analyzed: 11/19/18

Benzene	0.0147	0.0016	mg/Kg dry	0.0156	ND	94.0	70-130	0.138	30	
Ethylbenzene	0.0150	0.0016	mg/Kg dry	0.0156	ND	96.2	70-130	2.56	30	
Isopropylbenzene (Cumene)	0.0165	0.0016	mg/Kg dry	0.0156	ND	105	70-130	0.876	30	
Toluene	0.0145	0.0016	mg/Kg dry	0.0156	ND	93.0	70-130	1.21	30	
1,2,4-Trimethylbenzene	0.0154	0.0016	mg/Kg dry	0.0156	ND	98.5	70-130	2.31	30	
m+p Xylene	0.0317	0.0031	mg/Kg dry	0.0313	ND	102	70-130	0.530	30	
o-Xylene	0.0158	0.0016	mg/Kg dry	0.0156	ND	101	70-130	0.424	30	
Surrogate: 1,2-Dichloroethane-d4	0.0402		mg/Kg dry	0.0391		103	70-130			
Surrogate: Toluene-d8	0.0392		mg/Kg dry	0.0391		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0414		mg/Kg dry	0.0391		106	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217429 - SW-846 3546

Blank (B217429-BLK1)

Prepared: 11/16/18 Analyzed: 11/17/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.33		65.5	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/Kg wet	3.33		104	30-130			

LCS (B217429-BS1)

Prepared: 11/16/18 Analyzed: 11/17/18

Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(g,h,i)perylene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140			
2-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.5	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg wet	3.33		88.9	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 B217429 - SW-846 3546										
LCS Dup (B217429-BSD1)										
					Prepared: 11/16/18 Analyzed: 11/17/18					
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	8.09	30	
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	5.98	30	
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	6.61	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	5.91	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	8.42	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	7.29	30	
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140	6.60	30	
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	6.93	30	
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	5.03	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	7.40	30	
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	5.66	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.18	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	7.36	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	3.31	30	
Naphthalene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	3.07	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	6.67	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	5.31	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.2	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.6	30-130			
Matrix Spike (B217429-MS1)										
			Source: 18K0695-01		Prepared: 11/16/18 Analyzed: 11/17/18					
Acenaphthene	1.23	0.21	mg/Kg dry	2.04	ND	60.0	40-140			
Acenaphthylene	1.29	0.21	mg/Kg dry	2.04	ND	63.3	40-140			
Anthracene	1.35	0.21	mg/Kg dry	2.04	ND	66.3	40-140			
Benzo(a)anthracene	1.42	0.21	mg/Kg dry	2.04	ND	69.4	40-140			
Benzo(a)pyrene	1.43	0.21	mg/Kg dry	2.04	ND	70.3	40-140			
Benzo(b)fluoranthene	1.36	0.21	mg/Kg dry	2.04	ND	66.7	40-140			
Benzo(g,h,i)perylene	1.56	0.21	mg/Kg dry	2.04	ND	76.4	40-140			
Benzo(k)fluoranthene	1.38	0.21	mg/Kg dry	2.04	ND	67.6	40-140			
Chrysene	1.36	0.21	mg/Kg dry	2.04	ND	66.8	40-140			
Dibenz(a,h)anthracene	1.36	0.21	mg/Kg dry	2.04	ND	66.6	40-140			
Fluoranthene	1.28	0.21	mg/Kg dry	2.04	ND	62.9	40-140			
Fluorene	1.28	0.21	mg/Kg dry	2.04	ND	62.8	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.21	mg/Kg dry	2.04	ND	70.8	40-140			
2-Methylnaphthalene	1.43	0.21	mg/Kg dry	2.04	ND	69.9	40-140			
Naphthalene	1.38	0.21	mg/Kg dry	2.04	ND	67.5	40-140			
Phenanthrene	1.38	0.21	mg/Kg dry	2.04	ND	67.6	40-140			
Pyrene	1.40	0.21	mg/Kg dry	2.04	ND	68.4	40-140			
Surrogate: Nitrobenzene-d5	3.22		mg/Kg dry	4.08		79.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.48		mg/Kg dry	4.08		60.7	30-130			
Surrogate: p-Terphenyl-d14	3.17		mg/Kg dry	4.08		77.7	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 B217429 - SW-846 3546										
Matrix Spike (B217429-MS2)	Source: 18K0695-03			Prepared: 11/16/18 Analyzed: 11/17/18						
Acenaphthene	1.37	0.20	mg/Kg dry	1.99	ND	68.8	40-140			
Acenaphthylene	1.42	0.20	mg/Kg dry	1.99	ND	71.6	40-140			
Anthracene	1.51	0.20	mg/Kg dry	1.99	ND	75.9	40-140			
Benzo(a)anthracene	1.58	0.20	mg/Kg dry	1.99	ND	79.6	40-140			
Benzo(a)pyrene	1.64	0.20	mg/Kg dry	1.99	ND	82.5	40-140			
Benzo(b)fluoranthene	1.62	0.20	mg/Kg dry	1.99	ND	81.7	40-140			
Benzo(g,h,i)perylene	1.43	0.20	mg/Kg dry	1.99	ND	72.1	40-140			
Benzo(k)fluoranthene	1.66	0.20	mg/Kg dry	1.99	ND	83.8	40-140			
Chrysene	1.51	0.20	mg/Kg dry	1.99	ND	76.0	40-140			
Dibenz(a,h)anthracene	1.28	0.20	mg/Kg dry	1.99	ND	64.5	40-140			
Fluoranthene	1.52	0.20	mg/Kg dry	1.99	ND	76.5	40-140			
Fluorene	1.39	0.20	mg/Kg dry	1.99	ND	70.2	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.20	mg/Kg dry	1.99	ND	68.2	40-140			
2-Methylnaphthalene	1.51	0.20	mg/Kg dry	1.99	ND	75.8	40-140			
Naphthalene	1.44	0.20	mg/Kg dry	1.99	ND	72.5	40-140			
Phenanthrene	1.53	0.20	mg/Kg dry	1.99	ND	76.9	40-140			
Pyrene	1.46	0.20	mg/Kg dry	1.99	ND	73.4	40-140			
Surrogate: Nitrobenzene-d5	3.39		mg/Kg dry	3.97		85.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.75		mg/Kg dry	3.97		69.2	30-130			
Surrogate: p-Terphenyl-d14	3.31		mg/Kg dry	3.97		83.4	30-130			
Matrix Spike (B217429-MS3)	Source: 18K0695-05			Prepared: 11/16/18 Analyzed: 11/17/18						
Acenaphthene	1.16	0.22	mg/Kg dry	2.19	ND	52.7	40-140			
Acenaphthylene	1.23	0.22	mg/Kg dry	2.19	ND	56.1	40-140			
Anthracene	1.33	0.22	mg/Kg dry	2.19	0.0811	57.1	40-140			
Benzo(a)anthracene	1.36	0.22	mg/Kg dry	2.19	ND	61.9	40-140			
Benzo(a)pyrene	1.36	0.22	mg/Kg dry	2.19	ND	62.1	40-140			
Benzo(b)fluoranthene	1.33	0.22	mg/Kg dry	2.19	ND	60.9	40-140			
Benzo(g,h,i)perylene	1.17	0.22	mg/Kg dry	2.19	ND	53.4	40-140			
Benzo(k)fluoranthene	1.36	0.22	mg/Kg dry	2.19	ND	61.8	40-140			
Chrysene	1.30	0.22	mg/Kg dry	2.19	ND	59.4	40-140			
Dibenz(a,h)anthracene	1.05	0.22	mg/Kg dry	2.19	ND	48.1	40-140			
Fluoranthene	1.40	0.22	mg/Kg dry	2.19	0.160	56.6	40-140			
Fluorene	1.21	0.22	mg/Kg dry	2.19	ND	55.4	40-140			
Indeno(1,2,3-cd)pyrene	1.13	0.22	mg/Kg dry	2.19	ND	51.4	40-140			
2-Methylnaphthalene	1.32	0.22	mg/Kg dry	2.19	ND	60.1	40-140			
Naphthalene	1.30	0.22	mg/Kg dry	2.19	ND	59.5	40-140			
Phenanthrene	1.54	0.22	mg/Kg dry	2.19	0.288	57.3	40-140			
Pyrene	1.56	0.22	mg/Kg dry	2.19	0.380	54.0	40-140			
Surrogate: Nitrobenzene-d5	3.11		mg/Kg dry	4.38		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg dry	4.38		54.6	30-130			
Surrogate: p-Terphenyl-d14	2.79		mg/Kg dry	4.38		63.7	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 B217429 - SW-846 3546										
Matrix Spike Dup (B217429-MSD1)										
		Source: 18K0695-01			Prepared: 11/16/18 Analyzed: 11/17/18					
Acenaphthene	1.30	0.21	mg/Kg dry	2.04	ND	63.9	40-140	6.23	30	
Acenaphthylene	1.36	0.21	mg/Kg dry	2.04	ND	66.4	40-140	4.81	30	
Anthracene	1.46	0.21	mg/Kg dry	2.04	ND	71.3	40-140	7.36	30	
Benzo(a)anthracene	1.51	0.21	mg/Kg dry	2.04	ND	74.2	40-140	6.77	30	
Benzo(a)pyrene	1.52	0.21	mg/Kg dry	2.04	ND	74.7	40-140	6.10	30	
Benzo(b)fluoranthene	1.46	0.21	mg/Kg dry	2.04	ND	71.7	40-140	7.29	30	
Benzo(g,h,i)perylene	1.63	0.21	mg/Kg dry	2.04	ND	79.9	40-140	4.51	30	
Benzo(k)fluoranthene	1.45	0.21	mg/Kg dry	2.04	ND	70.9	40-140	4.73	30	
Chrysene	1.48	0.21	mg/Kg dry	2.04	ND	72.6	40-140	8.30	30	
Dibenz(a,h)anthracene	1.47	0.21	mg/Kg dry	2.04	ND	71.9	40-140	7.60	30	
Fluoranthene	1.38	0.21	mg/Kg dry	2.04	ND	67.7	40-140	7.26	30	
Fluorene	1.35	0.21	mg/Kg dry	2.04	ND	65.9	40-140	4.88	30	
Indeno(1,2,3-cd)pyrene	1.54	0.21	mg/Kg dry	2.04	ND	75.3	40-140	6.22	30	
2-Methylnaphthalene	1.50	0.21	mg/Kg dry	2.04	ND	73.6	40-140	5.16	30	
Naphthalene	1.45	0.21	mg/Kg dry	2.04	ND	71.2	40-140	5.34	30	
Phenanthrene	1.48	0.21	mg/Kg dry	2.04	ND	72.3	40-140	6.80	30	
Pyrene	1.50	0.21	mg/Kg dry	2.04	ND	73.5	40-140	7.19	30	
Surrogate: Nitrobenzene-d5	3.41		mg/Kg dry	4.08		83.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg dry	4.08		64.4	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/Kg dry	4.08		85.0	30-130			
Matrix Spike Dup (B217429-MSD2)										
		Source: 18K0695-03			Prepared: 11/16/18 Analyzed: 11/17/18					
Acenaphthene	1.29	0.21	mg/Kg dry	2.01	ND	63.9	40-140	6.08	30	
Acenaphthylene	1.34	0.21	mg/Kg dry	2.01	ND	66.6	40-140	5.90	30	
Anthracene	1.45	0.21	mg/Kg dry	2.01	ND	72.1	40-140	3.75	30	
Benzo(a)anthracene	1.52	0.21	mg/Kg dry	2.01	ND	75.3	40-140	4.22	30	
Benzo(a)pyrene	1.55	0.21	mg/Kg dry	2.01	ND	77.2	40-140	5.31	30	
Benzo(b)fluoranthene	1.55	0.21	mg/Kg dry	2.01	ND	77.1	40-140	4.51	30	
Benzo(g,h,i)perylene	1.41	0.21	mg/Kg dry	2.01	ND	70.3	40-140	1.28	30	
Benzo(k)fluoranthene	1.55	0.21	mg/Kg dry	2.01	ND	77.2	40-140	6.89	30	
Chrysene	1.44	0.21	mg/Kg dry	2.01	ND	71.4	40-140	4.96	30	
Dibenz(a,h)anthracene	1.26	0.21	mg/Kg dry	2.01	ND	62.8	40-140	1.30	30	
Fluoranthene	1.45	0.21	mg/Kg dry	2.01	ND	72.0	40-140	4.75	30	
Fluorene	1.32	0.21	mg/Kg dry	2.01	ND	65.5	40-140	5.53	30	
Indeno(1,2,3-cd)pyrene	1.33	0.21	mg/Kg dry	2.01	ND	66.2	40-140	1.70	30	
2-Methylnaphthalene	1.40	0.21	mg/Kg dry	2.01	ND	69.8	40-140	6.96	30	
Naphthalene	1.30	0.21	mg/Kg dry	2.01	ND	64.7	40-140	10.0	30	
Phenanthrene	1.44	0.21	mg/Kg dry	2.01	ND	71.8	40-140	5.58	30	
Pyrene	1.39	0.21	mg/Kg dry	2.01	ND	69.1	40-140	4.65	30	
Surrogate: Nitrobenzene-d5	3.05		mg/Kg dry	4.02		75.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg dry	4.02		63.0	30-130			
Surrogate: p-Terphenyl-d14	3.24		mg/Kg dry	4.02		80.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217429 - SW-846 3546										
Matrix Spike Dup (B217429-MSD3)	Source: 18K0695-05			Prepared: 11/16/18 Analyzed: 11/17/18						
Acenaphthene	1.35	0.22	mg/Kg dry	2.15	ND	63.0	40-140	15.8	30	
Acenaphthylene	1.43	0.22	mg/Kg dry	2.15	ND	66.6	40-140	15.2	30	
Anthracene	1.62	0.22	mg/Kg dry	2.15	0.0811	71.7	40-140	19.6	30	
Benzo(a)anthracene	1.56	0.22	mg/Kg dry	2.15	ND	72.6	40-140	13.9	30	
Benzo(a)pyrene	1.62	0.22	mg/Kg dry	2.15	ND	75.4	40-140	17.5	30	
Benzo(b)fluoranthene	1.61	0.22	mg/Kg dry	2.15	ND	74.8	40-140	18.6	30	
Benzo(g,h,i)perylene	1.43	0.22	mg/Kg dry	2.15	ND	66.6	40-140	20.0	30	
Benzo(k)fluoranthene	1.63	0.22	mg/Kg dry	2.15	ND	76.0	40-140	18.6	30	
Chrysene	1.51	0.22	mg/Kg dry	2.15	ND	70.1	40-140	14.6	30	
Dibenz(a,h)anthracene	1.29	0.22	mg/Kg dry	2.15	ND	60.0	40-140	20.1	30	
Fluoranthene	1.70	0.22	mg/Kg dry	2.15	0.160	71.7	40-140	19.3	30	
Fluorene	1.43	0.22	mg/Kg dry	2.15	ND	66.7	40-140	16.6	30	
Indeno(1,2,3-cd)pyrene	1.37	0.22	mg/Kg dry	2.15	ND	63.5	40-140	19.2	30	
2-Methylnaphthalene	1.58	0.22	mg/Kg dry	2.15	ND	73.5	40-140	18.1	30	
Naphthalene	1.52	0.22	mg/Kg dry	2.15	ND	70.8	40-140	15.4	30	
Phenanthrene	1.91	0.22	mg/Kg dry	2.15	0.288	75.6	40-140	21.4	30	
Pyrene	1.86	0.22	mg/Kg dry	2.15	0.380	68.8	40-140	17.2	30	
Surrogate: Nitrobenzene-d5	3.64		mg/Kg dry	4.30		84.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.81		mg/Kg dry	4.30		65.4	30-130			
Surrogate: p-Terphenyl-d14	3.32		mg/Kg dry	4.30		77.2	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217432 - SW-846 3546										
Blank (B217432-BLK1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			
LCS (B217432-BS1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	0.091	0.0040	mg/Kg wet	0.100		91.5	40-140			
4,4'-DDE [2C]	0.089	0.0040	mg/Kg wet	0.100		89.1	40-140			
4,4'-DDT	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140			
4,4'-DDT [2C]	0.083	0.0040	mg/Kg wet	0.100		83.0	40-140			
Endosulfan I	0.084	0.0050	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		78.0	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.0	40-140			
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.7	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			
LCS Dup (B217432-BSD1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	0.096	0.0040	mg/Kg wet	0.100		95.6	40-140	4.39	30	
4,4'-DDE [2C]	0.093	0.0040	mg/Kg wet	0.100		93.1	40-140	4.38	30	
4,4'-DDT	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140	8.28	30	
4,4'-DDT [2C]	0.076	0.0040	mg/Kg wet	0.100		76.3	40-140	8.36	30	
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	1.22	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		76.3	40-140	2.13	30	
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		81.5	40-140	1.88	30	
Endosulfan II [2C]	0.079	0.0080	mg/Kg wet	0.100		79.2	40-140	1.94	30	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			
Matrix Spike (B217432-MS1)										
Source: 18K0695-01 Prepared: 11/16/18 Analyzed: 11/19/18										
4,4'-DDE	0.13	0.0048	mg/Kg dry	0.119	ND	111	30-150			V-06
4,4'-DDE [2C]	0.13	0.0048	mg/Kg dry	0.119	ND	109	30-150			
4,4'-DDT	0.084	0.0048	mg/Kg dry	0.119	ND	70.2	30-150			
4,4'-DDT [2C]	0.082	0.0048	mg/Kg dry	0.119	ND	68.8	30-150			
Endosulfan I	0.10	0.0060	mg/Kg dry	0.119	0.0058	81.2	30-150			
Endosulfan I [2C]	0.094	0.0060	mg/Kg dry	0.119	0.0054	74.0	30-150			
Endosulfan II	0.098	0.0095	mg/Kg dry	0.119	ND	81.9	30-150			
Endosulfan II [2C]	0.096	0.0095	mg/Kg dry	0.119	ND	80.7	30-150			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg dry	0.239		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg dry	0.239		85.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217432 - SW-846 3546										
Matrix Spike (B217432-MS1)		Source: 18K0695-01			Prepared: 11/16/18 Analyzed: 11/19/18					
Surrogate: Tetrachloro-m-xylene	0.209		mg/Kg dry	0.239		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg dry	0.239		77.0	30-150			
Matrix Spike (B217432-MS2)		Source: 18K0695-03			Prepared: 11/16/18 Analyzed: 11/19/18					
4,4'-DDE	0.15	0.0047	mg/Kg dry	0.119	ND	128	30-150			R-06, V-06
4,4'-DDE [2C]	0.15	0.0047	mg/Kg dry	0.119	ND	126	30-150			R-06
4,4'-DDT	0.076	0.0047	mg/Kg dry	0.119	ND	63.6	30-150			R-06
4,4'-DDT [2C]	0.074	0.0047	mg/Kg dry	0.119	ND	62.5	30-150			R-06
Endosulfan I	0.11	0.0059	mg/Kg dry	0.119	ND	90.7	30-150			
Endosulfan I [2C]	0.098	0.0059	mg/Kg dry	0.119	ND	82.7	30-150			
Endosulfan II	0.10	0.0095	mg/Kg dry	0.119	ND	86.9	30-150			
Endosulfan II [2C]	0.10	0.0095	mg/Kg dry	0.119	ND	86.2	30-150			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg dry	0.237		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg dry	0.237		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg dry	0.237		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg dry	0.237		74.4	30-150			
Matrix Spike (B217432-MS3)		Source: 18K0695-05			Prepared: 11/16/18 Analyzed: 11/19/18					
4,4'-DDE	0.15	0.0052	mg/Kg dry	0.131	ND	113	30-150			V-06
4,4'-DDE [2C]	0.15	0.0052	mg/Kg dry	0.131	ND	114	30-150			
4,4'-DDT	0.069	0.0052	mg/Kg dry	0.131	ND	53.0	30-150			
4,4'-DDT [2C]	0.069	0.0052	mg/Kg dry	0.131	ND	52.9	30-150			
Endosulfan I	0.11	0.0066	mg/Kg dry	0.131	ND	81.2	30-150			
Endosulfan I [2C]	0.098	0.0066	mg/Kg dry	0.131	ND	75.0	30-150			
Endosulfan II	0.10	0.010	mg/Kg dry	0.131	ND	76.4	30-150			
Endosulfan II [2C]	0.10	0.010	mg/Kg dry	0.131	ND	76.8	30-150			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg dry	0.262		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg dry	0.262		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg dry	0.262		78.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg dry	0.262		73.0	30-150			
Matrix Spike Dup (B217432-MSD1)		Source: 18K0695-01			Prepared: 11/16/18 Analyzed: 11/19/18					
4,4'-DDE	0.13	0.0048	mg/Kg dry	0.120	ND	105	30-150	4.60	30	V-06
4,4'-DDE [2C]	0.13	0.0048	mg/Kg dry	0.120	ND	104	30-150	3.29	30	
4,4'-DDT	0.10	0.0048	mg/Kg dry	0.120	ND	83.7	30-150	18.5	30	
4,4'-DDT [2C]	0.10	0.0048	mg/Kg dry	0.120	ND	83.1	30-150	19.9	30	
Endosulfan I	0.11	0.0060	mg/Kg dry	0.120	0.0058	84.1	30-150	4.16	30	
Endosulfan I [2C]	0.10	0.0060	mg/Kg dry	0.120	0.0054	78.3	30-150	6.22	30	
Endosulfan II	0.10	0.0096	mg/Kg dry	0.120	ND	85.4	30-150	5.19	30	
Endosulfan II [2C]	0.10	0.0096	mg/Kg dry	0.120	ND	85.3	30-150	6.52	30	
Surrogate: Decachlorobiphenyl	0.212		mg/Kg dry	0.241		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.210		mg/Kg dry	0.241		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg dry	0.241		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.241		80.5	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217432 - SW-846 3546										
Matrix Spike Dup (B217432-MSD2)		Source: 18K0695-03			Prepared: 11/16/18 Analyzed: 11/19/18					
4,4'-DDE	0.11	0.0047	mg/Kg dry	0.119	ND	90.0	30-150	34.8	* 30	R-06, V-06
4,4'-DDE [2C]	0.11	0.0047	mg/Kg dry	0.119	ND	89.2	30-150	34.3	* 30	R-06
4,4'-DDT	0.10	0.0047	mg/Kg dry	0.119	ND	87.0	30-150	31.0	* 30	R-06
4,4'-DDT [2C]	0.10	0.0047	mg/Kg dry	0.119	ND	85.9	30-150	31.5	* 30	R-06
Endosulfan I	0.098	0.0059	mg/Kg dry	0.119	ND	82.4	30-150	9.69	30	
Endosulfan I [2C]	0.090	0.0059	mg/Kg dry	0.119	ND	75.9	30-150	8.55	30	
Endosulfan II	0.096	0.0095	mg/Kg dry	0.119	ND	80.6	30-150	7.45	30	
Endosulfan II [2C]	0.094	0.0095	mg/Kg dry	0.119	ND	79.4	30-150	8.21	30	
Surrogate: Decachlorobiphenyl	<i>0.193</i>		mg/Kg dry	0.237		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	<i>0.192</i>		mg/Kg dry	0.237		80.7	30-150			
Surrogate: Tetrachloro-m-xylene	<i>0.195</i>		mg/Kg dry	0.237		82.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	<i>0.174</i>		mg/Kg dry	0.237		73.5	30-150			
Matrix Spike Dup (B217432-MSD3)		Source: 18K0695-05			Prepared: 11/16/18 Analyzed: 11/19/18					
4,4'-DDE	0.16	0.0051	mg/Kg dry	0.128	ND	128	30-150	9.76	30	V-06
4,4'-DDE [2C]	0.14	0.0051	mg/Kg dry	0.128	ND	106	30-150	8.93	30	
4,4'-DDT	0.076	0.0051	mg/Kg dry	0.128	ND	58.9	30-150	8.62	30	
4,4'-DDT [2C]	0.073	0.0051	mg/Kg dry	0.128	ND	56.6	30-150	4.70	30	
Endosulfan I	0.12	0.0064	mg/Kg dry	0.128	ND	89.9	30-150	8.26	30	
Endosulfan I [2C]	0.10	0.0064	mg/Kg dry	0.128	ND	81.4	30-150	6.21	30	
Endosulfan II	0.093	0.010	mg/Kg dry	0.128	ND	72.4	30-150	7.40	30	
Endosulfan II [2C]	0.091	0.010	mg/Kg dry	0.128	ND	70.6	30-150	10.4	30	
Surrogate: Decachlorobiphenyl	<i>0.232</i>		mg/Kg dry	0.257		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	<i>0.222</i>		mg/Kg dry	0.257		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	<i>0.235</i>		mg/Kg dry	0.257		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	<i>0.207</i>		mg/Kg dry	0.257		80.4	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217450 - % Solids										
Duplicate (B217450-DUP1)	Source: 18K0695-01			Prepared: 11/16/18 Analyzed: 11/17/18						
% Solids	81.3		% Wt		81.4			0.143	20	
Duplicate (B217450-DUP2)	Source: 18K0695-03			Prepared: 11/16/18 Analyzed: 11/17/18						
% Solids	81.6		% Wt		81.8			0.266	20	
Duplicate (B217450-DUP3)	Source: 18K0695-05			Prepared: 11/16/18 Analyzed: 11/17/18						
% Solids	75.8		% Wt		75.6			0.356	20	

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BREAKDOWN REPORT

Lab Sample ID: S029490-PEM1 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.99
Endrin [1] 3.79

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.57
Endrin [2] 4.12

BREAKDOWN REPORT

Lab Sample ID: S029490-PEM2 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.15
Endrin [1] 4.56

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.60
Endrin [2] 4.73

BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 4.56

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BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 **Analyzed:** 11/19/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.39
Endrin [2]	5.01

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

OU2-SED-51-Bottom

SW-846 8081B

Lab Sample ID: 18K0695-01 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	7.317	7.290	7.350	0.0058	
	2	7.200	7.167	7.227	0.0054	7.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217432-BS1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.259	7.231	7.291	0.091	
	2	7.273	7.245	7.305	0.089	3.3
4,4'-DDT	1	7.938	7.909	7.969	0.086	
	2	7.966	7.938	7.998	0.083	3.6
Endosulfan I	1	7.320	7.292	7.352	0.084	
	2	7.196	7.167	7.227	0.078	7.4
Endosulfan II	1	7.859	7.831	7.891	0.083	
	2	7.806	7.778	7.838	0.081	2.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8081B

Lab Sample ID: B217432-BSD1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.259	7.231	7.291	0.096	
	2	7.274	7.245	7.305	0.093	3.2
4,4'-DDT	1	7.938	7.909	7.969	0.079	
	2	7.967	7.938	7.998	0.076	3.9
Endosulfan I	1	7.321	7.292	7.352	0.083	
	2	7.196	7.167	7.227	0.076	8.8
Endosulfan II	1	7.860	7.831	7.891	0.082	
	2	7.807	7.778	7.838	0.079	3.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B217432-MS1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.257	7.227	7.287	0.13	
	2	7.272	7.243	7.303	0.13	0.0
4,4'-DDT	1	7.935	7.906	7.966	0.084	
	2	7.965	7.936	7.996	0.082	2.4
Endosulfan I	1	7.318	7.289	7.349	0.10	
	2	7.194	7.165	7.225	0.094	6.2
Endosulfan II	1	7.856	7.827	7.887	0.098	
	2	7.805	7.775	7.835	0.096	2.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B217432-MS2 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.256	7.227	7.287	0.15	
	2	7.271	7.243	7.303	0.15	0.0
4,4'-DDT	1	7.935	7.906	7.966	0.076	
	2	7.964	7.936	7.996	0.074	2.7
Endosulfan I	1	7.317	7.289	7.349	0.11	
	2	7.194	7.165	7.225	0.098	11.5
Endosulfan II	1	7.855	7.827	7.887	0.10	
	2	7.804	7.775	7.835	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B217432-MS3 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.256	7.227	7.287	0.15	
	2	7.273	7.243	7.303	0.15	0.0
4,4'-DDT	1	7.935	7.906	7.966	0.069	
	2	7.965	7.936	7.996	0.069	1.4
Endosulfan I	1	7.318	7.289	7.349	0.11	
	2	7.194	7.165	7.225	0.098	11.5
Endosulfan II	1	7.856	7.827	7.887	0.10	
	2	7.804	7.775	7.835	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B217432-MSD1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.256	7.227	7.287	0.13	
	2	7.272	7.243	7.303	0.13	0.0
4,4'-DDT	1	7.935	7.906	7.966	0.10	
	2	7.965	7.936	7.996	0.10	0.0
Endosulfan I	1	7.318	7.289	7.349	0.11	
	2	7.194	7.165	7.225	0.10	9.5
Endosulfan II	1	7.856	7.827	7.887	0.10	
	2	7.805	7.775	7.835	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B217432-MSD2 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.255	7.227	7.287	0.11	
	2	7.271	7.243	7.303	0.11	0.0
4,4'-DDT	1	7.934	7.906	7.966	0.10	
	2	7.964	7.936	7.996	0.10	0.0
Endosulfan I	1	7.317	7.289	7.349	0.098	
	2	7.193	7.165	7.225	0.090	8.5
Endosulfan II	1	7.855	7.827	7.887	0.096	
	2	7.803	7.775	7.835	0.094	2.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B217432-MSD3 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.252	7.227	7.287	0.16	
	2	7.269	7.243	7.303	0.14	13.3
4,4'-DDT	1	7.930	7.906	7.966	0.076	
	2	7.961	7.936	7.996	0.073	4.0
Endosulfan I	1	7.313	7.289	7.349	0.12	
	2	7.191	7.165	7.225	0.10	18.2
Endosulfan II	1	7.851	7.827	7.887	0.093	
	2	7.801	7.775	7.835	0.091	2.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU 2 Sed
Project Number:
Project Manager: Matthew Warren

Con-Test Quote Name/Number:
Invoice Recipient: miw@land-remediation.com
Sampled By: Ethan Bradt

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

Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: PDF EXCEL
Other:

CLP Like Data Plg Required:
Email To: miw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
13	OU2-Sed-51-Bottom	11/13/18 (14:38)	11/13/18 (14:38)		X	S	L
2	OU2-Sed-51-Bottom (MS)	11/13/18 (14:38)	11/13/18 (14:38)		X	S	L
3	OU2-Sed-51-Bottom (MSD)	11/13/18 (14:38)	11/13/18 (14:38)		X	S	L
4	DUP-8	11/13/18 (14:38)	11/13/18 (14:38)		X	S	L
5	OU2-Sed-50-Bottom	11/13/18 (14:55)	11/13/18 (14:55)		X	S	L
6	OU2-Sed-50-Bottom (MS)	11/13/18 (14:55)	11/13/18 (14:55)		X	S	L
7	OU2-Sed-50-Bottom (MSD)	11/13/18 (14:55)	11/13/18 (14:55)		X	S	L
8	DUP-7	11/13/18 (14:55)	11/13/18 (14:55)		X	S	L
9	OU2-Sed-49-Bottom	11/13/18 (14:22)	11/13/18 (14:22)		X	S	L
10	OU2-Sed-49-Bottom (MS)	11/13/18 (14:22)	11/13/18 (14:22)		X	S	L
11	OU2-Sed-49-Bottom (MSD)	11/13/18 (14:22)	11/13/18 (14:22)		X	S	L
12	DUP-8	11/13/18 (14:22)	11/13/18 (14:22)		X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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: 11/14/18 5:30
Received by: (signature) Date/Time: 11/16/18 10:16
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Program & Regulatory Information

AWQ STDS **NY TOGS** **NY CP-51**
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

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

Other: **Chromatogram** **AHMA-LAP, LLC**

Deliverables

Enhanced Data Package
 NYSDEC EQ/IS EDD
 EQ/IS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

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

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

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

PCB ONLY
 Soxhlet
 Non Soxhlet



813219356030



Delivered
Friday 11/16/2018 at 10:46 am



DELIVERED

Signed for by: B.FAUST

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219356030

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling
Surcharge, Indirect Signature Required

STANDARD TRANSIT
 11/15/2018 by 10:30 am

SHIP DATE
 Wed 11/14/2018

ACTUAL DELIVERY
Fri 11/16/2018 10:46 am

Travel History

Local Scan Time

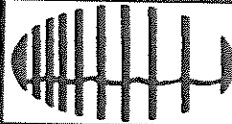
Friday, 11/16/2018

10:46 am	MA	Delivered
8:08 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:55 am	WINDSOR LOCKS, CT	At local FedEx facility

Thursday, 11/15/2018

11:28 am	EAST GRANBY, CT	At destination sort facility
9:52 am	INDIANAPOLIS, IN	Departed FedEx location

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By Rap Date 11/16/18 Time 1046

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 _____ By Gun # 1 Actual Temp - 3.9
 _____ By Blank # _____ Actual Temp - _____

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Ashly
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? T
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F

Do all samples have the proper pH? MA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>12</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>2-1</u>	Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	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:

Sample 6 is labelled as Dup-6 however the time does match. Sample 2 does not match 'COC,' ID does but time on COC is 11/13/18 @ 14:38 ? the sample label has 11/13/18 @ 1537.

November 19, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0759

Enclosed are results of analyses for samples received by the laboratory on November 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/19/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0759

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Sed-44-Bottom	18K0759-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Sed-45-Bottom (MS)	18K0759-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-44-Bottom

Sampled: 11/14/2018 14:55

Sample ID: 18K0759-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
1,2,4-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:56	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		114	70-130						11/16/18 16:56	
Toluene-d8		97.6	70-130						11/16/18 16:56	
4-Bromofluorobenzene		99.7	70-130						11/16/18 16:56	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-44-Bottom

Sampled: 11/14/2018 14:55

Sample ID: 18K0759-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:19	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		95.2	30-130						11/17/18 14:19	
2-Fluorobiphenyl		72.8	30-130						11/17/18 14:19	
p-Terphenyl-d14		111	30-130						11/17/18 14:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-44-Bottom

Sampled: 11/14/2018 14:55

Sample ID: 18K0759-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:25	TG
4,4'-DDT [2]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:25	TG
Endosulfan I [2]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:25	TG
Endosulfan II [2]	ND	0.0097	0.00037	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:25	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	80.6		30-150					11/19/18	8:25	
Decachlorobiphenyl [2]	79.3		30-150					11/19/18	8:25	
Tetrachloro-m-xylene [1]	70.0		30-150					11/19/18	8:25	
Tetrachloro-m-xylene [2]	67.9		30-150					11/19/18	8:25	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-44-Bottom

Sampled: 11/14/2018 14:55

Sample ID: 18K0759-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	11/16/18	11/17/18 12:42	CJT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-45-Bottom (MS)

Sampled: 11/14/2018 15:10

Sample ID: 18K0759-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
Ethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
Toluene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
o-Xylene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
Xylenes (total)	ND	0.0051		mg/Kg dry	1		SW-846 8260C	11/16/18	11/16/18 16:29	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		112	70-130						11/16/18 16:29	
Toluene-d8		95.4	70-130						11/16/18 16:29	
4-Bromofluorobenzene		97.6	70-130						11/16/18 16:29	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-45-Bottom (MS)

Sampled: 11/14/2018 15:10

Sample ID: 18K0759-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Anthracene	0.079	0.22	0.062	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Benzo(a)pyrene	0.076	0.22	0.067	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Chrysene	0.084	0.22	0.067	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Fluoranthene	0.32	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.15	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Phenanthrene	0.14	0.22	0.11	mg/Kg dry	1	J	SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Pyrene	0.60	0.22	0.071	mg/Kg dry	1		SW-846 8270D	11/16/18	11/17/18 14:41	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		92.4	30-130						11/17/18 14:41	
2-Fluorobiphenyl		73.2	30-130						11/17/18 14:41	
p-Terphenyl-d14		108	30-130						11/17/18 14:41	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-45-Bottom (MS)

Sampled: 11/14/2018 15:10

Sample ID: 18K0759-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:52	TG
4,4'-DDT [2]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:52	TG
Endosulfan I [2]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:52	TG
Endosulfan II [2]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	11/16/18	11/19/18 8:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.9		30-150					11/19/18	8:52	
Decachlorobiphenyl [2]	98.1		30-150					11/19/18	8:52	
Tetrachloro-m-xylene [1]	92.3		30-150					11/19/18	8:52	
Tetrachloro-m-xylene [2]	76.3		30-150					11/19/18	8:52	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0759

Date Received: 11/16/2018

Field Sample #: OU2-Sed-45-Bottom (MS)

Sampled: 11/14/2018 15:10

Sample ID: 18K0759-02

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	77.7		% Wt	1		SM 2540G	11/16/18	11/17/18 12:42	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0759-01 [OU2-Sed-44-Bottom]	B217450	11/16/18
18K0759-02 [OU2-Sed-45-Bottom (MS)]	B217450	11/16/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0759-01 [OU2-Sed-44-Bottom]	B217432	10.3	10.0	11/16/18
18K0759-02 [OU2-Sed-45-Bottom (MS)]	B217432	10.2	10.0	11/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0759-01 [OU2-Sed-44-Bottom]	B217439	6.50	10.0	11/16/18
18K0759-02 [OU2-Sed-45-Bottom (MS)]	B217439	7.56	10.0	11/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0759-01 [OU2-Sed-44-Bottom]	B217429	30.5	1.00	11/16/18
18K0759-02 [OU2-Sed-45-Bottom (MS)]	B217429	30.4	1.00	11/16/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217439 - SW-846 5035										
Blank (B217439-BLK1)										
Prepared & Analyzed: 11/16/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0521		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
LCS (B217439-BS1)										
Prepared & Analyzed: 11/16/18										
Benzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Isopropylbenzene (Cumene)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
1,2,4-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.9	70-130			
LCS Dup (B217439-BSD1)										
Prepared & Analyzed: 11/16/18										
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	2.76	25	
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.53	25	
Isopropylbenzene (Cumene)	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	6.12	25	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.38	25	
1,2,4-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.970	25	
m+p Xylene	0.0432	0.0040	mg/Kg wet	0.0400		108	70-130	3.25	25	
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	1.50	25	
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217429 - SW-846 3546

Blank (B217429-BLK1)

Prepared: 11/16/18 Analyzed: 11/17/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.33		65.5	30-130			
Surrogate: p-Terphenyl-d14	3.47		mg/Kg wet	3.33		104	30-130			

LCS (B217429-BS1)

Prepared: 11/16/18 Analyzed: 11/17/18

Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(g,h,i)perylene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140			
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140			
2-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.5	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg wet	3.33		88.9	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 B217429 - SW-846 3546										
LCS Dup (B217429-BSD1)										
					Prepared: 11/16/18 Analyzed: 11/17/18					
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	8.09	30	
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	5.98	30	
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	6.61	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	5.91	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	8.42	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	7.29	30	
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140	6.60	30	
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	6.93	30	
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	5.03	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	7.40	30	
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	5.66	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.18	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	7.36	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	3.31	30	
Naphthalene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	3.07	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	6.67	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	5.31	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.2	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217432 - SW-846 3546										
Blank (B217432-BLK1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			
LCS (B217432-BS1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	0.091	0.0040	mg/Kg wet	0.100		91.5	40-140			
4,4'-DDE [2C]	0.089	0.0040	mg/Kg wet	0.100		89.1	40-140			
4,4'-DDT	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140			
4,4'-DDT [2C]	0.083	0.0040	mg/Kg wet	0.100		83.0	40-140			
Endosulfan I	0.084	0.0050	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		78.0	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.0	40-140			
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.7	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			
LCS Dup (B217432-BSD1)										
Prepared: 11/16/18 Analyzed: 11/17/18										
4,4'-DDE	0.096	0.0040	mg/Kg wet	0.100		95.6	40-140	4.39	30	
4,4'-DDE [2C]	0.093	0.0040	mg/Kg wet	0.100		93.1	40-140	4.38	30	
4,4'-DDT	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140	8.28	30	
4,4'-DDT [2C]	0.076	0.0040	mg/Kg wet	0.100		76.3	40-140	8.36	30	
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	1.22	30	
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		76.3	40-140	2.13	30	
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		81.5	40-140	1.88	30	
Endosulfan II [2C]	0.079	0.0080	mg/Kg wet	0.100		79.2	40-140	1.94	30	
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S029490-PEM1 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.99
Endrin [1] 3.79

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.57
Endrin [2] 4.12

BREAKDOWN REPORT

Lab Sample ID: S029490-PEM2 **Analyzed:** 11/17/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.15
Endrin [1] 4.56

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.60
Endrin [2] 4.73

BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 4.56

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

BREAKDOWN REPORT

Lab Sample ID: S029518-PEM1 Analyzed: 11/19/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.39
Endrin [2]	5.01

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217432-BS1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.259	7.231	7.291	0.091	
	2	7.273	7.245	7.305	0.089	3.3
4,4'-DDT	1	7.938	7.909	7.969	0.086	
	2	7.966	7.938	7.998	0.083	3.6
Endosulfan I	1	7.320	7.292	7.352	0.084	
	2	7.196	7.167	7.227	0.078	7.4
Endosulfan II	1	7.859	7.831	7.891	0.083	
	2	7.806	7.778	7.838	0.081	2.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B217432-BSD1 Date(s) Analyzed 11/17/2018 11/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.259	7.231	7.291	0.096	
	2	7.274	7.245	7.305	0.093	3.2
4,4'-DDT	1	7.938	7.909	7.969	0.079	
	2	7.967	7.938	7.998	0.076	3.9
Endosulfan I	1	7.321	7.292	7.352	0.083	
	2	7.196	7.167	7.227	0.076	8.8
Endosulfan II	1	7.860	7.831	7.891	0.082	
	2	7.807	7.778	7.838	0.079	3.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 2

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone: _____
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU 2 Sed
Project Number: _____
Project Manager: Matthew Warren
Con-Test Quote Name/Number: _____
Invoice Recipient: miw@land-remediation.com
Sampled By: Ethan Bradt

Requested Turnaround Time:
 7-Day 10-Day
Due Date: _____
 Rush-Approval Required

Format: PDF EXCEL
Other: _____

CLP Like Data Pkg Required:
Email To: miw@land-remediation.com
Fax To #: _____

Requested Turnaround Time: 10-Day

Due Date: _____

1-Day: **3-Day:**
2-Day: **4-Day:**

Format: PDF EXCEL

Other: _____

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-Sed-44-Bottom	11/14/18 (14:55)	11/14/18 (14:55)	X	X	S	L
2	OU2-Sed-45-Bottom (MS)	11/14/18 (15:10)	11/14/18 (15:10)	X	X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables

Enhanced Data Package
 NYSDEC EQulS EDD
 EQulS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity

<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Municipality	<input type="checkbox"/> MWRA	<input type="checkbox"/> WRTA	<input type="checkbox"/> Other
<input type="checkbox"/> Federal	<input type="checkbox"/> City	<input type="checkbox"/> 21 J	<input type="checkbox"/> School	<input type="checkbox"/> Chromatogram
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield	<input type="checkbox"/> MBTA	<input type="checkbox"/> MBTA	<input type="checkbox"/> AIHA-LAP, LLC

Signature Lines:

Relinquished by: (signature) _____ Date/Time: 11/15/18 (8:24)

Received by: (signature) U.I. _____ Date/Time: 11/16/18 10:16

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

PCB ONLY

Soxhlet

Non Soxhlet

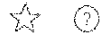


11/16/2018

Track your package or shipment with FedEx Tracking



813219360422



Delivered
Friday 11/16/2018 at 10:46 am



DELIVERED
Signed for by: B.FAUST
GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219360422

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Indirect Signature Required

STANDARD TRANSIT
 11/16/2018 by 10:30 am

SHIP DATE
 Thu 11/15/2018

ACTUAL DELIVERY
Fri 11/16/2018 10:46 am

Travel History

Local Scan Time

Friday, 11/16/2018

10:46 am	MA	Delivered
9:06 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
8:54 am	WINDSOR LOCKS, CT	At local FedEx facility
8:09 am	EAST GRANBY, CT	At destination sort facility
6:02 am	INDIANAPOLIS, IN	Departed FedEx location
12:48 am	INDIANAPOLIS, IN	Arrived at FedEx location

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By RSP Date 11/16/18 Time 1046

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1

Was Custody Seal Intact? NA By Blank # _____ Actual Temp - _____

Was COC Relinquished? T Were Samples Tampered with? NA

Are there broken/leaking/loose caps on any samples? F Does Chain Agree With Samples? T

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

Are Sample labels filled out and legible? Project T ID's T Collection Dates/Times T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? ASH

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T MS/MSD? F

Is there Headspace where applicable? F Is splitting samples required? F

Proper Media/Containers Used? T On COC? F

Were trip blanks received? F Acid _____ Base _____

Do all samples have the proper pH? NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	4	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		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:

[Empty box for comments]

November 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0837

Enclosed are results of analyses for samples received by the laboratory on November 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0837

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

PROJECT LOCATION: OU_2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-134-Sidewall	18K0837-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-135-Sidewall	18K0837-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-136-Sidewall	18K0837-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-137-Sidewall	18K0837-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

L-07

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

Analyte & Sample(s) Qualified:

Dibenz(a,h)anthracene

B217472-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-134-Sidewall

Sampled: 11/15/2018 14:55

Sample ID: 18K0837-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:30	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:30	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:30	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	96.8	70-130	
4-Bromofluorobenzene	104	70-130	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-134-Sidewall

Sampled: 11/15/2018 14:55

Sample ID: 18K0837-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:32	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		68.8	30-130						11/19/18 16:32	
2-Fluorobiphenyl		57.6	30-130						11/19/18 16:32	
p-Terphenyl-d14		63.4	30-130						11/19/18 16:32	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-134-Sidewall

Sampled: 11/15/2018 14:55

Sample ID: 18K0837-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	11/17/18	11/20/18 1:07	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	87.2		30-150						11/20/18 1:07	
Decachlorobiphenyl [2]	89.3		30-150						11/20/18 1:07	
Tetrachloro-m-xylene [1]	77.1		30-150						11/20/18 1:07	
Tetrachloro-m-xylene [2]	76.8		30-150						11/20/18 1:07	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-134-Sidewall

Sampled: 11/15/2018 14:55

Sample ID: 18K0837-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.5	0.43	0.27	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 11:58	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-134-Sidewall

Sampled: 11/15/2018 14:55

Sample ID: 18K0837-01

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	77.8		% Wt	1		SM 2540G	11/18/18	11/19/18 12:21	KMG

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-135-Sidewall

Sampled: 11/15/2018 15:05

Sample ID: 18K0837-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:55	MF
o-Xylene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:55	MF
Xylenes (total)	ND	0.0051		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 14:55	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	101		70-130				11/19/18 14:55			
Toluene-d8	97.8		70-130				11/19/18 14:55			
4-Bromofluorobenzene	102		70-130				11/19/18 14:55			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-135-Sidewall

Sampled: 11/15/2018 15:05

Sample ID: 18K0837-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	0.62	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Benzo(a)pyrene	0.67	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Benzo(b)fluoranthene	0.72	0.20	0.056	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Benzo(k)fluoranthene	0.26	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Chrysene	0.54	0.20	0.062	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Indeno(1,2,3-cd)pyrene	0.35	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 16:59	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	70.3		30-130						11/19/18 16:59	
2-Fluorobiphenyl	57.1		30-130						11/19/18 16:59	
p-Terphenyl-d14	60.5		30-130						11/19/18 16:59	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-135-Sidewall

Sampled: 11/15/2018 15:05

Sample ID: 18K0837-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/17/18	11/20/18 1:34	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	94.6		30-150						11/20/18 1:34	
Decachlorobiphenyl [2]	98.9		30-150						11/20/18 1:34	
Tetrachloro-m-xylene [1]	78.2		30-150						11/20/18 1:34	
Tetrachloro-m-xylene [2]	72.5		30-150						11/20/18 1:34	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-135-Sidewall

Sampled: 11/15/2018 15:05

Sample ID: 18K0837-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.7	0.39	0.24	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:03	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-135-Sidewall

Sampled: 11/15/2018 15:05

Sample ID: 18K0837-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	11/18/18	11/19/18 12:21	KMG

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-136-Sidewall

Sampled: 11/15/2018 15:20

Sample ID: 18K0837-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:20	MF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:20	MF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:20	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130				11/19/18 15:20			
Toluene-d8	94.8		70-130				11/19/18 15:20			
4-Bromofluorobenzene	102		70-130				11/19/18 15:20			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-136-Sidewall

Sampled: 11/15/2018 15:20

Sample ID: 18K0837-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	0.079	0.24	0.064	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Benzo(a)pyrene	0.15	0.24	0.076	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Benzo(b)fluoranthene	0.15	0.24	0.068	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Benzo(k)fluoranthene	ND	0.24	0.076	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Chrysene	ND	0.24	0.076	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Dibenz(a,h)anthracene	ND	0.24	0.15	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:25	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	61.9	30-130	
2-Fluorobiphenyl	51.4	30-130	
p-Terphenyl-d14	57.0	30-130	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-136-Sidewall

Sampled: 11/15/2018 15:20

Sample ID: 18K0837-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0072	0.00057	mg/Kg dry	1		SW-846 8081B	11/17/18	11/20/18 2:01	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.2		30-150						11/20/18 2:01	
Decachlorobiphenyl [2]	84.8		30-150						11/20/18 2:01	
Tetrachloro-m-xylene [1]	75.4		30-150						11/20/18 2:01	
Tetrachloro-m-xylene [2]	72.3		30-150						11/20/18 2:01	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-136-Sidewall

Sampled: 11/15/2018 15:20

Sample ID: 18K0837-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.3	0.48	0.30	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:08	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-136-Sidewall

Sampled: 11/15/2018 15:20

Sample ID: 18K0837-03

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	69.6		% Wt	1		SM 2540G	11/18/18	11/19/18 12:21	KMG

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-137-Sidewall

Sampled: 11/15/2018 15:10

Sample ID: 18K0837-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:45	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:45	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 15:45	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	96.9	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-137-Sidewall

Sampled: 11/15/2018 15:10

Sample ID: 18K0837-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	0.14	0.19	0.051	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Benzo(a)pyrene	0.15	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Benzo(b)fluoranthene	0.18	0.19	0.054	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Benzo(k)fluoranthene	0.060	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Chrysene	0.13	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 17:51	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	67.0		30-130				11/19/18 17:51			
2-Fluorobiphenyl	58.7		30-130				11/19/18 17:51			
p-Terphenyl-d14	63.3		30-130				11/19/18 17:51			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-137-Sidewall

Sampled: 11/15/2018 15:10

Sample ID: 18K0837-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	11/17/18	11/20/18 2:27	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.3		30-150						11/20/18 2:27	
Decachlorobiphenyl [2]	95.0		30-150						11/20/18 2:27	
Tetrachloro-m-xylene [1]	80.5		30-150						11/20/18 2:27	
Tetrachloro-m-xylene [2]	76.2		30-150						11/20/18 2:27	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-137-Sidewall

Sampled: 11/15/2018 15:10

Sample ID: 18K0837-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.7	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:13	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0837

Date Received: 11/17/2018

Field Sample #: OU2-Soil-137-Sidewall

Sampled: 11/15/2018 15:10

Sample ID: 18K0837-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	11/18/18	11/19/18 12:22	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0837-01 [OU2-Soil-134-Sidewall]	B217479	11/18/18
18K0837-02 [OU2-Soil-135-Sidewall]	B217479	11/18/18
18K0837-03 [OU2-Soil-136-Sidewall]	B217479	11/18/18
18K0837-04 [OU2-Soil-137-Sidewall]	B217479	11/18/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0837-01 [OU2-Soil-134-Sidewall]	B217534	1.48	50.0	11/19/18
18K0837-02 [OU2-Soil-135-Sidewall]	B217534	1.50	50.0	11/19/18
18K0837-03 [OU2-Soil-136-Sidewall]	B217534	1.49	50.0	11/19/18
18K0837-04 [OU2-Soil-137-Sidewall]	B217534	1.52	50.0	11/19/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0837-01 [OU2-Soil-134-Sidewall]	B217466	10.2	10.0	11/17/18
18K0837-02 [OU2-Soil-135-Sidewall]	B217466	10.1	10.0	11/17/18
18K0837-03 [OU2-Soil-136-Sidewall]	B217466	10.0	10.0	11/17/18
18K0837-04 [OU2-Soil-137-Sidewall]	B217466	10.0	10.0	11/17/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0837-01 [OU2-Soil-134-Sidewall]	B217529	8.00	10.0	11/19/18
18K0837-02 [OU2-Soil-135-Sidewall]	B217529	6.95	10.0	11/19/18
18K0837-03 [OU2-Soil-136-Sidewall]	B217529	7.90	10.0	11/19/18
18K0837-04 [OU2-Soil-137-Sidewall]	B217529	7.17	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0837-01 [OU2-Soil-134-Sidewall]	B217472	30.2	1.00	11/17/18
18K0837-02 [OU2-Soil-135-Sidewall]	B217472	30.3	1.00	11/17/18
18K0837-03 [OU2-Soil-136-Sidewall]	B217472	30.2	1.00	11/17/18
18K0837-04 [OU2-Soil-137-Sidewall]	B217472	30.1	1.00	11/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217529 - SW-846 5035										
Blank (B217529-BLK1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0524		mg/Kg wet	0.0500		105	70-130			
LCS (B217529-BS1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0532		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B217529-BSD1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5	70-130	9.90	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	7.42	25	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B217472 - SW-846 3546

Blank (B217472-BLK1)

Prepared: 11/17/18 Analyzed: 11/19/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.85		mg/Kg wet	3.33		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: p-Terphenyl-d14	3.29		mg/Kg wet	3.33		98.8	30-130			

LCS (B217472-BS1)

Prepared: 11/17/18 Analyzed: 11/19/18

Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140			
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Dibenz(a,h)anthracene	0.796	0.17	mg/Kg wet	1.67		47.8	40-140			
Indeno(1,2,3-cd)pyrene	0.861	0.17	mg/Kg wet	1.67		51.7	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.32		mg/Kg wet	3.33		69.5	30-130			
Surrogate: p-Terphenyl-d14	2.37		mg/Kg wet	3.33		71.0	30-130			

LCS Dup (B217472-BSD1)

Prepared: 11/17/18 Analyzed: 11/19/18

Benzo(a)anthracene	0.896	0.17	mg/Kg wet	1.67		53.7	40-140	23.1	30	
Benzo(a)pyrene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140	26.3	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.3	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	10.1	30	
Chrysene	0.846	0.17	mg/Kg wet	1.67		50.8	40-140	21.5	30	
Dibenz(a,h)anthracene	0.635	0.17	mg/Kg wet	1.67		38.1	* 40-140	22.4	30	L-07
Indeno(1,2,3-cd)pyrene	0.699	0.17	mg/Kg wet	1.67		41.9	40-140	20.9	30	
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.81		mg/Kg wet	3.33		54.3	30-130			
Surrogate: p-Terphenyl-d14	1.87		mg/Kg wet	3.33		56.1	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217466 - SW-846 3546										
Blank (B217466-BLK1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg wet	0.200		71.1	30-150			
LCS (B217466-BS1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
alpha-BHC	0.057	0.0050	mg/Kg wet	0.100		56.8	40-140			
alpha-BHC [2C]	0.056	0.0050	mg/Kg wet	0.100		56.0	40-140			
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.122		mg/Kg wet	0.200		60.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.121		mg/Kg wet	0.200		60.4	30-150			
LCS Dup (B217466-BSD1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
alpha-BHC	0.068	0.0050	mg/Kg wet	0.100		68.2	40-140	18.2	30	
alpha-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		66.5	40-140	17.2	30	
Surrogate: Decachlorobiphenyl	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.145		mg/Kg wet	0.200		72.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.3	30-150			

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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 B217534 - SW-846 3050B										
Blank (B217534-BLK1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B217534-BS1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	137	0.98	mg/Kg wet	136		101	82.4-117.6			
LCS Dup (B217534-BSD1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	141	0.99	mg/Kg wet	136		103	82.4-117.6	2.32	30	

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BREAKDOWN REPORT

Lab Sample ID: S029539-PEM1 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.86
Endrin [1] 2.79

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.07
Endrin [2] 2.89

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM2 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.08
Endrin [1] 3.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.33
Endrin [2] 3.89

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM3 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.34
Endrin [1] 2.93

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BREAKDOWN REPORT

Lab Sample ID: S029539-PEM3 **Analyzed:** 11/19/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.43
Endrin [2] 3.30

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM4 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.19
Endrin [1] 2.47

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.93
Endrin [2] 2.73

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM5 **Analyzed:** 11/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 7.22
Endrin [1] 3.67

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 8.58
Endrin [2] 4.22

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217466-BS1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.797	5.766	5.826	0.057	
	2	5.706	5.676	5.736	0.056	1.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B217466-BSD1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.796	5.766	5.826	0.068	
	2	5.705	5.676	5.736	0.067	1.5

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K0837



Company Name: **con-test**
 Address: 74 Hudson River Road Waterford, NY
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 LAND remediation

http://www.contestlabs.com

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

Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #:

Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: OU_2 Soil
 Project Number:
 Project Manager: Matthew Warren
 Con-Test Quote Name/Number:
 Invoice Recipient: miw@land-remediation.com
 Sampled By: Ethan Bradt

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-Soil-134-Sidewall	11/15/18 (14:55)	11/15/18 (14:55)	X	S	L	X
2	OU2-Soil-135-Sidewall	11/15/18 (15:05)	11/15/18 (15:05)	X	S	L	X
3	OU2-Soil-136-Sidewall	11/15/18 (15:20)	11/15/18 (15:20)	X	S	L	X
4	OU2-Soil-137-Sidewall	11/15/18 (15:10)	11/15/18 (15:10)	X	S	L	X

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

ANALYSIS REQUESTED
 8081 - Alpha-BHC Only
 8260 - Xylenes Only + total Xylene
 Chromium 6010

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) *[Signature]* Date/Time: 11/16/18 (10:50)
 Received by: (signature) *[Signature]* Date/Time: 11/17/18 11:23
 Relinquished by: (signature) *[Signature]* Date/Time:
 Received by: (signature) *[Signature]* Date/Time:
 Relinquished by: (signature) *[Signature]* Date/Time:

Program & Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

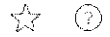
Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

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

PCB ONLY
 Soxhlet
 Non Soxhlet



813219363970



Delivered

Saturday 11/17/2018 at 11:23 am



DELIVERED

Signed for by: B.BECCA

[GET STATUS UPDATES](#)

[OBTAIN PROOF OF DELIVERY](#)

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219363970

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Recipient

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
For Saturday Delivery, Indirect Signature Required

STANDARD TRANSIT
 11/17/2018 by 12:00 pm

SHIP DATE
 Fri 11/16/2018

ACTUAL DELIVERY
Sat 11/17/2018 11:23 am

Travel History

Local Scan Time

Saturday, 11/17/2018

11:23 am	MA	Delivered
9:09 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:55 am	WINDSOR LOCKS, CT	At local FedEx facility
6:51 am	EAST GRANBY, CT	At destination sort facility
3:43 am	MEMPHIS, TN	Departed FedEx location
12:37 am	MEMPHIS, TN	Arrived at FedEx location

Friday, 11/16/2018

6:27 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By Ray Date 11/27/18 Time 1123

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 28
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

Are there Rushes? T

Are there Short Holds? f

Is there enough Volume? T

Is there Headspace where applicable? f

Proper Media/Containers Used? T

Were trip blanks received? f

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? michelle

Who was notified? _____

MS/MSD? f

Is splitting samples required? f

On COC? f

Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>4</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>8</u>	Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	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:

The 8oz jar for sample # 2 was received broken, it was then transferred to another jar.

November 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0838

Enclosed are results of analyses for samples received by the laboratory on November 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0838

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Sed-51-Bottom	18K0838-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
DUP-9	18K0838-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Sed-52 -Bottom	18K0838-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8270D**Qualifications:****L-07**

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

Analyte & Sample(s) Qualified:**Benzo(g,h,i)perylene**

B217472-BSD1

Dibenz(a,h)anthracene

B217472-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-51-Bottom

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:12	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						11/19/18 10:12	
Toluene-d8		98.0	70-130						11/19/18 10:12	
4-Bromofluorobenzene		100	70-130						11/19/18 10:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-51-Bottom

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Phenanthrene	0.14	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Pyrene	0.084	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:16	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		74.2	30-130						11/19/18 18:16	
2-Fluorobiphenyl		66.9	30-130						11/19/18 18:16	
p-Terphenyl-d14		69.1	30-130						11/19/18 18:16	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-51-Bottom

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.00047	0.000035	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:08	TG
4,4'-DDT [1]	ND	0.00047	0.000047	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:08	TG
Endosulfan I [1]	ND	0.00059	0.000047	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:08	TG
Endosulfan II [1]	ND	0.00094	0.000035	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:08	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.7		30-150						11/19/18 12:08	
Decachlorobiphenyl [2]	94.5		30-150						11/19/18 12:08	
Tetrachloro-m-xylene [1]	81.0		30-150						11/19/18 12:08	
Tetrachloro-m-xylene [2]	75.2		30-150						11/19/18 12:08	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-51-Bottom

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	11/18/18	11/19/18 12:22	KMG

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: DUP-9

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
Toluene	0.00069	0.0014	0.00054	mg/Kg dry	1	J	SW-846 8260C	11/19/18	11/19/18 10:40	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 10:40	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	105		70-130						11/19/18 10:40	
Toluene-d8	96.9		70-130						11/19/18 10:40	
4-Bromofluorobenzene	100		70-130						11/19/18 10:40	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: DUP-9

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.065	0.20	0.060	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Anthracene	0.079	0.20	0.058	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Benzo(a)anthracene	0.061	0.20	0.053	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Fluoranthene	0.12	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Phenanthrene	0.29	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Pyrene	0.20	0.20	0.066	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 18:43	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	75.9		30-130				11/19/18 18:43			
2-Fluorobiphenyl	66.6		30-130				11/19/18 18:43			
p-Terphenyl-d14	78.1		30-130				11/19/18 18:43			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: DUP-9

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:35	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:35	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:35	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 12:35	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	101		30-150						11/19/18 12:35	
Decachlorobiphenyl [2]	103		30-150						11/19/18 12:35	
Tetrachloro-m-xylene [1]	88.6		30-150						11/19/18 12:35	
Tetrachloro-m-xylene [2]	84.2		30-150						11/19/18 12:35	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: DUP-9

Sampled: 11/15/2018 15:00

Sample ID: 18K0838-02

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	83.9		% Wt	1		SM 2540G	11/18/18	11/19/18 12:22	KMG

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-52 -Bottom

Sampled: 11/15/2018 15:15

Sample ID: 18K0838-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 11:07	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					11/19/18	11:07	
Toluene-d8		96.0	70-130					11/19/18	11:07	
4-Bromofluorobenzene		100	70-130					11/19/18	11:07	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-52 -Bottom

Sampled: 11/15/2018 15:15

Sample ID: 18K0838-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	11/17/18	11/19/18 19:09	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		64.0	30-130						11/19/18 19:09	
2-Fluorobiphenyl		57.8	30-130						11/19/18 19:09	
p-Terphenyl-d14		73.4	30-130						11/19/18 19:09	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-52 -Bottom

Sampled: 11/15/2018 15:15

Sample ID: 18K0838-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 13:02	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 13:02	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 13:02	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	11/17/18	11/19/18 13:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	86.0	30-150	
Decachlorobiphenyl [2]	87.6	30-150	
Tetrachloro-m-xylene [1]	70.1	30-150	
Tetrachloro-m-xylene [2]	67.6	30-150	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18K0838

Date Received: 11/17/2018

Field Sample #: OU2-Sed-52 -Bottom

Sampled: 11/15/2018 15:15

Sample ID: 18K0838-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	11/18/18	11/19/18 12:22	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0838-01 [OU2-Sed-51-Bottom]	B217479	11/18/18
18K0838-02 [DUP-9]	B217479	11/18/18
18K0838-03 [OU2-Sed-52 -Bottom]	B217479	11/18/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0838-01 [OU2-Sed-51-Bottom]	B217475	103	10.0	11/17/18
18K0838-02 [DUP-9]	B217475	10.0	10.0	11/17/18
18K0838-03 [OU2-Sed-52 -Bottom]	B217475	10.1	10.0	11/17/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0838-01 [OU2-Sed-51-Bottom]	B217503	8.40	10.0	11/19/18
18K0838-02 [DUP-9]	B217503	8.75	10.0	11/19/18
18K0838-03 [OU2-Sed-52 -Bottom]	B217503	8.05	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0838-01 [OU2-Sed-51-Bottom]	B217472	30.2	1.00	11/17/18
18K0838-02 [DUP-9]	B217472	30.2	1.00	11/17/18
18K0838-03 [OU2-Sed-52 -Bottom]	B217472	30.1	1.00	11/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217503 - SW-846 5035										
Blank (B217503-BLK1)										
Prepared & Analyzed: 11/19/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0529		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.7	70-130			
LCS (B217503-BS1)										
Prepared & Analyzed: 11/19/18										
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.4	70-130			
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0523		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			
LCS Dup (B217503-BSD1)										
Prepared & Analyzed: 11/19/18										
Benzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	0.204	25	
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	0.707	25	
Isopropylbenzene (Cumene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	4.44	25	
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	3.59	25	
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	1.36	25	
m+p Xylene	0.0384	0.0040	mg/Kg wet	0.0400		96.0	70-130	3.43	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	5.90	25	
Surrogate: 1,2-Dichloroethane-d4	0.0543		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.0	70-130			
Matrix Spike (B217503-MS1)										
Source: 18K0838-01 Prepared & Analyzed: 11/19/18										
Benzene	0.0121	0.0014	mg/Kg dry	0.0144	ND	84.4	70-130			
Ethylbenzene	0.0121	0.0014	mg/Kg dry	0.0144	ND	84.2	70-130			
Isopropylbenzene (Cumene)	0.0138	0.0014	mg/Kg dry	0.0144	ND	95.9	70-130			
Toluene	0.0118	0.0014	mg/Kg dry	0.0144	ND	82.3	70-130			
1,2,4-Trimethylbenzene	0.0123	0.0014	mg/Kg dry	0.0144	ND	85.5	70-130			
m+p Xylene	0.0244	0.0029	mg/Kg dry	0.0287	ND	85.0	70-130			
o-Xylene	0.0126	0.0014	mg/Kg dry	0.0144	ND	87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0366		mg/Kg dry	0.0359		102	70-130			
Surrogate: Toluene-d8	0.0348		mg/Kg dry	0.0359		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0358		mg/Kg dry	0.0359		99.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217503 - SW-846 5035

Matrix Spike Dup (B217503-MSD1)

Source: 18K0838-01

Prepared & Analyzed: 11/19/18

Benzene	0.0132	0.0014	mg/Kg dry	0.0144	ND	91.2	70-130	8.22	30	
Ethylbenzene	0.0144	0.0014	mg/Kg dry	0.0144	ND	99.8	70-130	17.4	30	
Isopropylbenzene (Cumene)	0.0149	0.0014	mg/Kg dry	0.0144	ND	104	70-130	8.10	30	
Toluene	0.0134	0.0014	mg/Kg dry	0.0144	ND	92.7	70-130	12.4	30	
1,2,4-Trimethylbenzene	0.0141	0.0014	mg/Kg dry	0.0144	ND	97.5	70-130	13.6	30	
m+p Xylene	0.0286	0.0029	mg/Kg dry	0.0289	ND	98.9	70-130	15.6	30	
o-Xylene	0.0142	0.0014	mg/Kg dry	0.0144	ND	98.6	70-130	12.5	30	
Surrogate: 1,2-Dichloroethane-d4	0.0365		mg/Kg dry	0.0361		101	70-130			
Surrogate: Toluene-d8	0.0359		mg/Kg dry	0.0361		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0363		mg/Kg dry	0.0361		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217472 - SW-846 3546

Blank (B217472-BLK1)

Prepared: 11/17/18 Analyzed: 11/19/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.85		mg/Kg wet	3.33		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: p-Terphenyl-d14	3.29		mg/Kg wet	3.33		98.8	30-130			

LCS (B217472-BS1)

Prepared: 11/17/18 Analyzed: 11/19/18

Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Acenaphthylene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140			
Benzo(g,h,i)perylene	0.754	0.17	mg/Kg wet	1.67		45.2	40-140			
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Dibenz(a,h)anthracene	0.796	0.17	mg/Kg wet	1.67		47.8	40-140			
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Indeno(1,2,3-cd)pyrene	0.861	0.17	mg/Kg wet	1.67		51.7	40-140			
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.32		mg/Kg wet	3.33		69.5	30-130			
Surrogate: p-Terphenyl-d14	2.37		mg/Kg wet	3.33		71.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217472 - SW-846 3546										
LCS Dup (B217472-BSD1)										
					Prepared: 11/17/18 Analyzed: 11/19/18					
Acenaphthene	0.899	0.17	mg/Kg wet	1.67		53.9	40-140	21.2	30	
Acenaphthylene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	23.2	30	
Anthracene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140	20.1	30	
Benzo(a)anthracene	0.896	0.17	mg/Kg wet	1.67		53.7	40-140	23.1	30	
Benzo(a)pyrene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140	26.3	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.3	30	
Benzo(g,h,i)perylene	0.617	0.17	mg/Kg wet	1.67		37.0	* 40-140	19.9	30	L-07
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	10.1	30	
Chrysene	0.846	0.17	mg/Kg wet	1.67		50.8	40-140	21.5	30	
Dibenz(a,h)anthracene	0.635	0.17	mg/Kg wet	1.67		38.1	* 40-140	22.4	30	L-07
Fluoranthene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140	22.3	30	
Fluorene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140	24.0	30	
Indeno(1,2,3-cd)pyrene	0.699	0.17	mg/Kg wet	1.67		41.9	40-140	20.9	30	
2-Methylnaphthalene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	20.1	30	
Naphthalene	0.900	0.17	mg/Kg wet	1.67		54.0	40-140	22.9	30	
Phenanthrene	0.879	0.17	mg/Kg wet	1.67		52.8	40-140	21.2	30	
Pyrene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140	21.7	30	
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.81		mg/Kg wet	3.33		54.3	30-130			
Surrogate: p-Terphenyl-d14	1.87		mg/Kg wet	3.33		56.1	30-130			
Matrix Spike (B217472-MS1)										
			Source: 18K0838-01		Prepared: 11/17/18 Analyzed: 11/19/18					
Acenaphthene	1.49	0.21	mg/Kg dry	2.01	ND	74.0	40-140			
Acenaphthylene	1.33	0.21	mg/Kg dry	2.01	ND	66.3	40-140			
Anthracene	1.42	0.21	mg/Kg dry	2.01	ND	70.8	40-140			
Benzo(a)anthracene	1.40	0.21	mg/Kg dry	2.01	ND	69.5	40-140			
Benzo(a)pyrene	1.40	0.21	mg/Kg dry	2.01	ND	69.4	40-140			
Benzo(b)fluoranthene	1.34	0.21	mg/Kg dry	2.01	ND	66.8	40-140			
Benzo(g,h,i)perylene	1.15	0.21	mg/Kg dry	2.01	ND	57.3	40-140			
Benzo(k)fluoranthene	1.32	0.21	mg/Kg dry	2.01	ND	65.7	40-140			
Chrysene	1.22	0.21	mg/Kg dry	2.01	ND	60.5	40-140			
Dibenz(a,h)anthracene	1.14	0.21	mg/Kg dry	2.01	ND	56.7	40-140			
Fluoranthene	1.45	0.21	mg/Kg dry	2.01	ND	72.2	40-140			
Fluorene	1.55	0.21	mg/Kg dry	2.01	ND	76.8	40-140			
Indeno(1,2,3-cd)pyrene	1.23	0.21	mg/Kg dry	2.01	ND	61.0	40-140			
2-Methylnaphthalene	1.34	0.21	mg/Kg dry	2.01	ND	66.7	40-140			
Naphthalene	1.15	0.21	mg/Kg dry	2.01	ND	56.9	40-140			
Phenanthrene	1.99	0.21	mg/Kg dry	2.01	0.144	91.7	40-140			
Pyrene	1.74	0.21	mg/Kg dry	2.01	0.0840	82.1	40-140			
Surrogate: Nitrobenzene-d5	2.75		mg/Kg dry	4.02		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg dry	4.02		59.3	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg dry	4.02		67.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217472 - SW-846 3546										
Matrix Spike Dup (B217472-MSD1)	Source: 18K0838-01			Prepared: 11/17/18 Analyzed: 11/19/18						
Acenaphthene	1.32	0.21	mg/Kg dry	2.01	ND	65.4	40-140	12.4	30	
Acenaphthylene	1.15	0.21	mg/Kg dry	2.01	ND	57.0	40-140	15.1	30	
Anthracene	1.22	0.21	mg/Kg dry	2.01	ND	60.7	40-140	15.4	30	
Benzo(a)anthracene	1.21	0.21	mg/Kg dry	2.01	ND	60.2	40-140	14.3	30	
Benzo(a)pyrene	1.24	0.21	mg/Kg dry	2.01	ND	61.8	40-140	11.6	30	
Benzo(b)fluoranthene	1.15	0.21	mg/Kg dry	2.01	ND	57.1	40-140	15.6	30	
Benzo(g,h,i)perylene	0.975	0.21	mg/Kg dry	2.01	ND	48.4	40-140	16.8	30	
Benzo(k)fluoranthene	1.15	0.21	mg/Kg dry	2.01	ND	57.3	40-140	13.7	30	
Chrysene	1.10	0.21	mg/Kg dry	2.01	ND	54.5	40-140	10.4	30	
Dibenz(a,h)anthracene	0.964	0.21	mg/Kg dry	2.01	ND	47.9	40-140	16.9	30	
Fluoranthene	1.34	0.21	mg/Kg dry	2.01	ND	66.7	40-140	7.92	30	
Fluorene	1.34	0.21	mg/Kg dry	2.01	ND	66.5	40-140	14.4	30	
Indeno(1,2,3-cd)pyrene	1.07	0.21	mg/Kg dry	2.01	ND	53.2	40-140	13.7	30	
2-Methylnaphthalene	1.17	0.21	mg/Kg dry	2.01	ND	58.1	40-140	13.8	30	
Naphthalene	1.02	0.21	mg/Kg dry	2.01	ND	50.6	40-140	11.8	30	
Phenanthrene	1.80	0.21	mg/Kg dry	2.01	0.144	82.1	40-140	10.2	30	
Pyrene	1.47	0.21	mg/Kg dry	2.01	0.0840	68.7	40-140	16.9	30	
Surrogate: Nitrobenzene-d5	2.33		mg/Kg dry	4.02		58.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg dry	4.02		51.3	30-130			
Surrogate: p-Terphenyl-d14	2.24		mg/Kg dry	4.02		55.7	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217475 - SW-846 3546										
Blank (B217475-BLK1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.1	30-150			
LCS (B217475-BS1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		105	40-140			
4,4'-DDE [2C]	0.098	0.0040	mg/Kg wet	0.100		98.0	40-140			
4,4'-DDT	0.095	0.0040	mg/Kg wet	0.100		94.7	40-140			
4,4'-DDT [2C]	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140			
Endosulfan I	0.092	0.0050	mg/Kg wet	0.100		91.6	40-140			
Endosulfan I [2C]	0.091	0.0050	mg/Kg wet	0.100		91.0	40-140			
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		92.8	40-140			
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		92.6	40-140			
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.4	30-150			
LCS Dup (B217475-BSD1)										
Prepared: 11/17/18 Analyzed: 11/19/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		115	40-140	9.51	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		108	40-140	9.31	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		104	40-140	8.93	30	
4,4'-DDT [2C]	0.097	0.0040	mg/Kg wet	0.100		97.4	40-140	8.73	30	
Endosulfan I	0.096	0.0050	mg/Kg wet	0.100		95.9	40-140	4.66	30	
Endosulfan I [2C]	0.095	0.0050	mg/Kg wet	0.100		95.0	40-140	4.34	30	
Endosulfan II	0.097	0.0080	mg/Kg wet	0.100		97.1	40-140	4.52	30	
Endosulfan II [2C]	0.097	0.0080	mg/Kg wet	0.100		96.8	40-140	4.49	30	
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		87.9	30-150			
Matrix Spike (B217475-MS1)										
Source: 18K0838-01 Prepared: 11/17/18 Analyzed: 11/19/18										
4,4'-DDE	0.11	0.0048	mg/Kg dry	0.121	ND	94.0	30-150			
4,4'-DDE [2C]	0.11	0.0048	mg/Kg dry	0.121	ND	88.3	30-150			
4,4'-DDT	0.099	0.0048	mg/Kg dry	0.121	ND	82.1	30-150			
4,4'-DDT [2C]	0.094	0.0048	mg/Kg dry	0.121	ND	78.2	30-150			
Endosulfan I	0.095	0.0060	mg/Kg dry	0.121	ND	78.5	30-150			
Endosulfan I [2C]	0.094	0.0060	mg/Kg dry	0.121	ND	78.0	30-150			
Endosulfan II	0.093	0.0097	mg/Kg dry	0.121	ND	77.2	30-150			
Endosulfan II [2C]	0.093	0.0097	mg/Kg dry	0.121	ND	77.1	30-150			
Surrogate: Decachlorobiphenyl	0.207		mg/Kg dry	0.241		85.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg dry	0.241		87.5	30-150			

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

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217475 - SW-846 3546										
Matrix Spike (B217475-MS1)		Source: 18K0838-01			Prepared: 11/17/18 Analyzed: 11/19/18					
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg dry	0.241		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg dry	0.241		64.7	30-150			
Matrix Spike Dup (B217475-MSD1)		Source: 18K0838-01			Prepared: 11/17/18 Analyzed: 11/19/18					
4,4'-DDE	0.12	0.0048	mg/Kg dry	0.121	ND	97.8	30-150	3.94	30	
4,4'-DDE [2C]	0.11	0.0048	mg/Kg dry	0.121	ND	91.7	30-150	3.79	30	
4,4'-DDT	0.086	0.0048	mg/Kg dry	0.121	ND	71.4	30-150	14.0	30	
4,4'-DDT [2C]	0.082	0.0048	mg/Kg dry	0.121	ND	68.0	30-150	13.9	30	
Endosulfan I	0.093	0.0060	mg/Kg dry	0.121	ND	77.1	30-150	1.85	30	
Endosulfan I [2C]	0.093	0.0060	mg/Kg dry	0.121	ND	76.6	30-150	1.75	30	
Endosulfan II	0.090	0.0097	mg/Kg dry	0.121	ND	74.9	30-150	3.00	30	
Endosulfan II [2C]	0.091	0.0097	mg/Kg dry	0.121	ND	75.1	30-150	2.69	30	
Surrogate: Decachlorobiphenyl	0.201		mg/Kg dry	0.241		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg dry	0.241		85.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg dry	0.241		74.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg dry	0.241		69.0	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217479 - % Solids

Duplicate (B217479-DUP3)

Source: 18K0838-01

Prepared: 11/18/18 Analyzed: 11/19/18

% Solids	83.8		% Wt		82.8			1.23	20	
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM1 **Analyzed:** 11/19/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.86
Endrin [1]	2.79

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.07
Endrin [2]	2.89

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM2 **Analyzed:** 11/19/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.08
Endrin [1]	3.21

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.33
Endrin [2]	3.89

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM3 **Analyzed:** 11/19/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.34
Endrin [1]	2.93

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BREAKDOWN REPORT

Lab Sample ID: S029539-PEM3 **Analyzed:** 11/19/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.43
Endrin [2] 3.30

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM4 **Analyzed:** 11/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.19
Endrin [1] 2.47

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.93
Endrin [2] 2.73

BREAKDOWN REPORT

Lab Sample ID: S029539-PEM5 **Analyzed:** 11/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 7.22
Endrin [1] 3.67

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 8.58
Endrin [2] 4.22

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217475-BS1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.261	7.232	7.292	0.10	
	2	7.261	7.233	7.293	0.098	11.5
4,4'-DDT	1	7.941	7.912	7.972	0.095	
	2	7.954	7.926	7.986	0.089	6.5
Endosulfan I	1	7.322	7.294	7.354	0.092	
	2	7.178	7.150	7.210	0.091	1.1
Endosulfan II	1	7.862	7.834	7.894	0.093	
	2	7.786	7.757	7.817	0.093	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B217475-BSD1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.260	7.232	7.292	0.11	
	2	7.261	7.233	7.293	0.11	8.7
4,4'-DDT	1	7.941	7.912	7.972	0.10	
	2	7.955	7.926	7.986	0.097	3.1
Endosulfan I	1	7.322	7.294	7.354	0.096	
	2	7.180	7.150	7.210	0.095	1.1
Endosulfan II	1	7.862	7.834	7.894	0.097	
	2	7.786	7.757	7.817	0.097	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike

Lab Sample ID: B217475-MS1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.260	7.232	7.292	0.11	
	2	7.261	7.233	7.293	0.11	0.0
4,4'-DDT	1	7.940	7.912	7.972	0.099	
	2	7.954	7.926	7.986	0.094	5.2
Endosulfan I	1	7.321	7.294	7.354	0.095	
	2	7.179	7.150	7.210	0.094	1.1
Endosulfan II	1	7.862	7.834	7.894	0.093	
	2	7.786	7.757	7.817	0.093	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B217475-MSD1 Date(s) Analyzed 11/19/2018 11/19/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.261	7.232	7.292	0.12	
	2	7.261	7.233	7.293	0.11	8.7
4,4'-DDT	1	7.941	7.912	7.972	0.086	
	2	7.954	7.926	7.986	0.082	4.8
Endosulfan I	1	7.322	7.294	7.354	0.093	
	2	7.179	7.150	7.210	0.093	0.0
Endosulfan II	1	7.862	7.834	7.894	0.090	
	2	7.786	7.757	7.817	0.091	1.1

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ethan Bradt

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

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

Data Delivery
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8081*	8260 Standard*	8270 PAH
1	OU2-Sed-51-Bottom	11/15/18 (15:00)	11/15/18 (15:00)		X	S	L	X	X	X
	OU2-Sed-51-Bottom (MS)	11/15/18 (15:00)	11/15/18 (15:00)		X	S	L	X	X	X
	OU2-Sed-51-Bottom (MSD)	11/15/18 (15:00)	11/15/18 (15:00)		X	S	L	X	X	X
2	DUP-9	11/15/18 (15:00)	11/15/18 (15:00)		X	S	L	X	X	X
3	OU2-Sed-52-Bottom	11/15/18 (15:15)	11/15/18 (15:15)		X	S	L	X	X	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

- 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: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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) *Cody Cant* Date/Time: 11/16/18 (10:50)
Received by: (signature) *[Signature]* Date/Time: 11/17/18 (12:30)
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Other: 

Project Entity

Government Municipality MWRA WRTA
 Federal 21 J School
 City Brownfield MBTA

Deliverables

Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other:
 Chromatogram
 AIHA-LAP, LLC

PCB ONLY

Soxhlet
 Non Soxhlet



813219363970



Delivered
Saturday 11/17/2018 at 11:23 am



DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER
813219363970

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Recipient

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
For Saturday Delivery, Indirect Signature Required

STANDARD TRANSIT
 11/17/2018 by 12:00 pm

SHIP DATE
 Fri 11/16/2018

ACTUAL DELIVERY
Sat 11/17/2018 11:23 am

Travel History

Local Scan Time

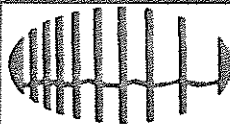
Saturday , 11/17/2018

11:23 am	MA	Delivered
9:09 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:55 am	WINDSOR LOCKS, CT	At local FedEx facility
6:51 am	EAST GRANBY, CT	At destination sort facility
3:43 am	MEMPHIS, TN	Departed FedEx location
12:37 am	MEMPHIS, TN	Arrived at FedEx location

Friday , 11/16/2018

6:27 pm	PLATTSBURGH, NY	Left FedEx origin facility
---------	-----------------	----------------------------

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By RAP Date 11/17/18 Time 1123

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.8
 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? Michelle
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? MPRT
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? T
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	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:

One of 3 jars for sample #1 was received broken.

November 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0842

Enclosed are results of analyses for samples received by the laboratory on November 19, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 11/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0842

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

PROJECT LOCATION: OU_2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-122-Sidewall	18K0842-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-123-Sidewall	18K0842-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-124-Sidewall	18K0842-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-125-Sidewall	18K0842-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:**

R-05
Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**alpha-BHC**

18K0842-01[OU2-Soil-122-Sidewall], 18K0842-02[OU2-Soil-123-Sidewall], 18K0842-03[OU2-Soil-124-Sidewall], 18K0842-04[OU2-Soil-125-Sidewall], B217542-BLK1, B217542-BS1, B217542-BSD1

alpha-BHC [2C]

18K0842-01[OU2-Soil-122-Sidewall], 18K0842-02[OU2-Soil-123-Sidewall], 18K0842-03[OU2-Soil-124-Sidewall], 18K0842-04[OU2-Soil-125-Sidewall], B217542-BLK1, B217542-BS1, B217542-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-122-Sidewall

Sampled: 11/14/2018 14:48

Sample ID: 18K0842-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:09	MF
o-Xylene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:09	MF
Xylenes (total)	ND	0.0061		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:09	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130						11/19/18 16:09	
Toluene-d8	96.8		70-130						11/19/18 16:09	
4-Bromofluorobenzene	101		70-130						11/19/18 16:09	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-122-Sidewall

Sampled: 11/14/2018 14:48

Sample ID: 18K0842-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.24	0.064	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Benzo(a)pyrene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Benzo(b)fluoranthene	ND	0.24	0.068	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Benzo(k)fluoranthene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Chrysene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Dibenz(a,h)anthracene	ND	0.24	0.15	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:11	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		46.2	30-130						11/19/18 22:11	
2-Fluorobiphenyl		42.9	30-130						11/19/18 22:11	
p-Terphenyl-d14		54.5	30-130						11/19/18 22:11	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-122-Sidewall

Sampled: 11/14/2018 14:48

Sample ID: 18K0842-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0067	0.00054	mg/Kg dry	1	R-05	SW-846 8081B	11/19/18	11/20/18 11:32	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.6		30-150						11/20/18 11:32	
Decachlorobiphenyl [2]	98.1		30-150						11/20/18 11:32	
Tetrachloro-m-xylene [1]	96.6		30-150						11/20/18 11:32	
Tetrachloro-m-xylene [2]	76.5		30-150						11/20/18 11:32	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-122-Sidewall

Sampled: 11/14/2018 14:48

Sample ID: 18K0842-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	1.3	0.49	0.30	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:18	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-122-Sidewall

Sampled: 11/14/2018 14:48

Sample ID: 18K0842-01

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	68.9		% Wt	1		SM 2540G	11/19/18	11/20/18 8:55	CJT

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-123-Sidewall

Sampled: 11/14/2018 15:00

Sample ID: 18K0842-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:34	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:34	MF
Xylenes (total)	ND	0.0051		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:34	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	104		70-130				11/19/18 16:34			
Toluene-d8	98.6		70-130				11/19/18 16:34			
4-Bromofluorobenzene	101		70-130				11/19/18 16:34			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-123-Sidewall

Sampled: 11/14/2018 15:00

Sample ID: 18K0842-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 22:38	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		39.2	30-130						11/19/18 22:38	
2-Fluorobiphenyl		32.9	30-130						11/19/18 22:38	
p-Terphenyl-d14		39.6	30-130						11/19/18 22:38	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-123-Sidewall

Sampled: 11/14/2018 15:00

Sample ID: 18K0842-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0063	0.00051	mg/Kg dry	1	R-05	SW-846 8081B	11/19/18	11/20/18 11:59	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.2		30-150						11/20/18 11:59	
Decachlorobiphenyl [2]	95.6		30-150						11/20/18 11:59	
Tetrachloro-m-xylene [1]	102		30-150						11/20/18 11:59	
Tetrachloro-m-xylene [2]	90.6		30-150						11/20/18 11:59	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-123-Sidewall

Sampled: 11/14/2018 15:00

Sample ID: 18K0842-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.3	0.42	0.26	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:23	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-123-Sidewall

Sampled: 11/14/2018 15:00

Sample ID: 18K0842-02

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	78.8		% Wt	1		SM 2540G	11/19/18	11/20/18 8:55	CJT

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-124-Sidewall

Sampled: 11/14/2018 15:15

Sample ID: 18K0842-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:59	MF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:59	MF
Xylenes (total)	ND	0.0061		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 16:59	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130				11/19/18 16:59			
Toluene-d8	97.6		70-130				11/19/18 16:59			
4-Bromofluorobenzene	106		70-130				11/19/18 16:59			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-124-Sidewall

Sampled: 11/14/2018 15:15

Sample ID: 18K0842-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.23	0.061	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Benzo(a)pyrene	ND	0.23	0.072	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Benzo(b)fluoranthene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Benzo(k)fluoranthene	ND	0.23	0.072	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Chrysene	ND	0.23	0.072	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:04	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.4	30-130						11/19/18 23:04	
2-Fluorobiphenyl		51.6	30-130						11/19/18 23:04	
p-Terphenyl-d14		63.7	30-130						11/19/18 23:04	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-124-Sidewall

Sampled: 11/14/2018 15:15

Sample ID: 18K0842-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0064	0.00051	mg/Kg dry	1	R-05	SW-846 8081B	11/19/18	11/20/18 12:26	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.5		30-150						11/20/18 12:26	
Decachlorobiphenyl [2]	95.4		30-150						11/20/18 12:26	
Tetrachloro-m-xylene [1]	102		30-150						11/20/18 12:26	
Tetrachloro-m-xylene [2]	90.5		30-150						11/20/18 12:26	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-124-Sidewall

Sampled: 11/14/2018 15:15

Sample ID: 18K0842-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	1.2	0.46	0.28	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:51	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-124-Sidewall

Sampled: 11/14/2018 15:15

Sample ID: 18K0842-03

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	73.8		% Wt	1		SM 2540G	11/19/18	11/20/18 8:55	CJT

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-125-Sidewall

Sampled: 11/14/2018 15:05

Sample ID: 18K0842-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 17:23	MF
o-Xylene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 17:23	MF
Xylenes (total)	ND	0.0072		mg/Kg dry	1		SW-846 8260C	11/19/18	11/19/18 17:23	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				11/19/18 17:23			
Toluene-d8	96.3		70-130				11/19/18 17:23			
4-Bromofluorobenzene	102		70-130				11/19/18 17:23			

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-125-Sidewall

Sampled: 11/14/2018 15:05

Sample ID: 18K0842-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.26	0.069	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Benzo(a)pyrene	ND	0.26	0.082	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Benzo(b)fluoranthene	ND	0.26	0.074	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Benzo(k)fluoranthene	ND	0.26	0.082	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Chrysene	ND	0.26	0.082	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Dibenz(a,h)anthracene	ND	0.26	0.16	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.26	0.19	mg/Kg dry	1		SW-846 8270D	11/19/18	11/19/18 23:31	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		47.8	30-130						11/19/18 23:31	
2-Fluorobiphenyl		39.9	30-130						11/19/18 23:31	
p-Terphenyl-d14		43.7	30-130						11/19/18 23:31	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-125-Sidewall

Sampled: 11/14/2018 15:05

Sample ID: 18K0842-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0072	0.00057	mg/Kg dry	1	R-05	SW-846 8081B	11/19/18	11/20/18 12:53	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	98.7		30-150						11/20/18 12:53	
Decachlorobiphenyl [2]	90.4		30-150						11/20/18 12:53	
Tetrachloro-m-xylene [1]	101		30-150						11/20/18 12:53	
Tetrachloro-m-xylene [2]	82.3		30-150						11/20/18 12:53	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-125-Sidewall

Sampled: 11/14/2018 15:05

Sample ID: 18K0842-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.4	0.52	0.32	mg/Kg dry	1		SW-846 6010D	11/19/18	11/20/18 12:56	QNW

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18K0842

Date Received: 11/19/2018

Field Sample #: OU2-Soil-125-Sidewall

Sampled: 11/14/2018 15:05

Sample ID: 18K0842-04

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	64.2		% Wt	1		SM 2540G	11/19/18	11/20/18 8:55	CJT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0842-01 [OU2-Soil-122-Sidewall]	B217557	11/19/18
18K0842-02 [OU2-Soil-123-Sidewall]	B217557	11/19/18
18K0842-03 [OU2-Soil-124-Sidewall]	B217557	11/19/18
18K0842-04 [OU2-Soil-125-Sidewall]	B217557	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0842-01 [OU2-Soil-122-Sidewall]	B217534	1.49	50.0	11/19/18
18K0842-02 [OU2-Soil-123-Sidewall]	B217534	1.51	50.0	11/19/18
18K0842-03 [OU2-Soil-124-Sidewall]	B217534	1.49	50.0	11/19/18
18K0842-04 [OU2-Soil-125-Sidewall]	B217534	1.50	50.0	11/19/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0842-01 [OU2-Soil-122-Sidewall]	B217542	10.8	10.0	11/19/18
18K0842-02 [OU2-Soil-123-Sidewall]	B217542	10.0	10.0	11/19/18
18K0842-03 [OU2-Soil-124-Sidewall]	B217542	10.6	10.0	11/19/18
18K0842-04 [OU2-Soil-125-Sidewall]	B217542	10.9	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0842-01 [OU2-Soil-122-Sidewall]	B217529	7.08	10.0	11/19/18
18K0842-02 [OU2-Soil-123-Sidewall]	B217529	7.49	10.0	11/19/18
18K0842-03 [OU2-Soil-124-Sidewall]	B217529	6.66	10.0	11/19/18
18K0842-04 [OU2-Soil-125-Sidewall]	B217529	6.52	10.0	11/19/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0842-01 [OU2-Soil-122-Sidewall]	B217543	30.7	1.00	11/19/18
18K0842-02 [OU2-Soil-123-Sidewall]	B217543	30.5	1.00	11/19/18
18K0842-03 [OU2-Soil-124-Sidewall]	B217543	30.1	1.00	11/19/18
18K0842-04 [OU2-Soil-125-Sidewall]	B217543	30.4	1.00	11/19/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217529 - SW-846 5035										
Blank (B217529-BLK1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0524		mg/Kg wet	0.0500		105	70-130			
LCS (B217529-BS1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0532		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B217529-BSD1)										
Prepared & Analyzed: 11/19/18										
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5	70-130	9.90	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	7.42	25	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217543 - SW-846 3546

Blank (B217543-BLK1)

Prepared & Analyzed: 11/19/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.91		mg/Kg wet	3.33		87.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.2	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.3	30-130			

LCS (B217543-BS1)

Prepared & Analyzed: 11/19/18

Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.3	40-140			
Benzo(b)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Dibenz(a,h)anthracene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg wet	3.33		65.4	30-130			
Surrogate: p-Terphenyl-d14	2.79		mg/Kg wet	3.33		83.8	30-130			

LCS Dup (B217543-BSD1)

Prepared & Analyzed: 11/19/18

Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140	5.50	30	
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	7.91	30	
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	7.59	30	
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	7.04	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	8.43	30	
Dibenz(a,h)anthracene	0.921	0.17	mg/Kg wet	1.67		55.3	40-140	6.24	30	
Indeno(1,2,3-cd)pyrene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	3.87	30	
Surrogate: Nitrobenzene-d5	2.28		mg/Kg wet	3.33		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg wet	3.33		62.7	30-130			
Surrogate: p-Terphenyl-d14	2.59		mg/Kg wet	3.33		77.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217542 - SW-846 3546										
Blank (B217542-BLK1)										
Prepared: 11/19/18 Analyzed: 11/20/18										
alpha-BHC	ND	0.0050	mg/Kg wet							R-05
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							R-05
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.4	30-150			
LCS (B217542-BS1)										
Prepared: 11/19/18 Analyzed: 11/20/18										
alpha-BHC	0.061	0.0050	mg/Kg wet	0.100		60.9	40-140			R-05
alpha-BHC [2C]	0.058	0.0050	mg/Kg wet	0.100		57.5	40-140			R-05
Surrogate: Decachlorobiphenyl	0.134		mg/Kg wet	0.200		67.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.130		mg/Kg wet	0.200		64.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.131		mg/Kg wet	0.200		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.123		mg/Kg wet	0.200		61.5	30-150			
LCS Dup (B217542-BSD1)										
Prepared: 11/19/18 Analyzed: 11/20/18										
alpha-BHC	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140	37.2 *	30	R-05
alpha-BHC [2C]	0.084	0.0050	mg/Kg wet	0.100		83.7	40-140	37.1 *	30	R-05
Surrogate: Decachlorobiphenyl	0.197		mg/Kg wet	0.200		98.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.4	30-150			

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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 B217534 - SW-846 3050B										
Blank (B217534-BLK1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B217534-BS1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	137	0.98	mg/Kg wet	136	101	82.4-117.6				
LCS Dup (B217534-BSD1)					Prepared: 11/19/18 Analyzed: 11/20/18					
Chromium	141	0.99	mg/Kg wet	136	103	82.4-117.6	2.32	30		

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217557 - % Solids

Duplicate (B217557-DUP5)

Source: 18K0842-04

Prepared: 11/19/18 Analyzed: 11/20/18

% Solids	62.1		% Wt		64.2			3.24	20	
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BREAKDOWN REPORT

Lab Sample ID: S029564-PEM1 **Analyzed:** 11/20/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	6.69
Endrin [1]	4.63

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	7.32
Endrin [2]	5.34

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*Lab Sample ID: B217542-BS1 Date(s) Analyzed 11/20/2018 11/20/2018Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.795	5.764	5.824	0.061	
	2	5.713	5.683	5.743	0.058	5.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B217542-BSD1 Date(s) Analyzed 11/20/2018 11/20/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.794	5.764	5.824	0.089	
	2	5.713	5.683	5.743	0.084	5.8

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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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB



18k0842
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03/2017
39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Company Name: **con-test ANALYTICAL LABORATORY**
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: **NYSDEC Saranac Lake Gas Co.**
Project Location: **OU_2 Soil**
Project Number:
Project Manager: **Matthew Warren**
Con-Test Quote Name/Number:
Invoice Recipient: **mjw@land-remediation.com**
Sampled By: **Ethan Bract**

Requested Turnaround Time:
7-Day 10-Day
Due Date:
RUSH Approval Required:
1-Day 3-Day
2-Day 4-Day
Data Delivery:
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: **mjw@land-remediation.com**
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	ANALYSIS REQUESTED	
								8081 - Alpha-BHC Only	8270 PAH
01	OU-2 Soil-122-Sidewall	11/14/18 (15:00)	11/14/18 (14:48)	X	S	L	L	X	X
02	OU-2 Soil-123-Sidewall	11/14/18 (15:00)	11/14/18 (15:00)	X	S	L	L	X	X
03	OU-2 Soil-124-Sidewall	11/14/18 (15:15)	11/14/18 (15:15)	X	S	L	L	X	X
04	OU-2 Soil-125-Sidewall	11/14/18 (15:00)	11/14/18 (15:00)	X	S	L	L	X	X

Comments: *8270 PAH; Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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) *[Signature]* Date/Time: 11/15/18 (9:24)

Received by: (signature) *[Signature]* Date/Time: 8:53

Relinquished by: (signature) *[Signature]* Date/Time: 11/19/18 3:4

Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:

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

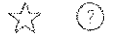
Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

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

PCB ONLY
 Soxhlet
 Non Soxhlet



813219356030



Delivered
Friday 11/16/2018 at 10:46 am



DELIVERED

Signed for by: B.FAUST

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US

TO
MA US

Shipment Facts

TRACKING NUMBER

813219356030

SERVICE

FedEx Priority Overnight

DIMENSIONS

24x14x14 in.

SIGNATURE SERVICES

Indirect signature required

DELIVERED TO

Shipping/Receiving

TOTAL PIECES

1

TERMS

Third Party

PACKAGING

Your Packaging

SPECIAL HANDLING SECTION

Deliver Weekday, Additional Handling Surcharge, Indirect Signature Required

STANDARD TRANSIT



11/15/2018 by 10:30 am

SHIP DATE



Wed 11/14/2018

ACTUAL DELIVERY

Fri 11/16/2018 10:46 am

Travel History

Local Scan Time

Friday, 11/16/2018

10:46 am	MA	Delivered
8:08 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:55 am	WINDSOR LOCKS, CT	At local FedEx facility

Thursday, 11/15/2018

11:28 am	EAST GRANBY, CT	At destination sort facility
9:52 am	INDIANAPOLIS, IN	Departed FedEx location

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PB Date 11-16-18 Time 10:46

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.4
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? F Does Chain Agree With Samples? NA & T

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

Is COC in ink/ Legible? NA & 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? T

Are there Rushes? T

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? T

Do all samples have the proper pH? NA

Who was notified? _____
Who was notified? Rate
Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>4</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>NA TO 8</u>	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		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:

Samples Received 11/16 @ 10:46 but NO COC in cooler. COC was received via Email on 11/19 @ 8:53 am.

October 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1358

Enclosed are results of analyses for samples received by the laboratory on September 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1811358

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-22-Bottom	1811358-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-23-Bottom	1811358-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-24-Bottom	1811358-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-25-Bottom	1811358-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-26-Bottom	1811358-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-85-Sidewall	1811358-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-86-Sidewall	1811358-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-88-Sidewall	1811358-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-89-Sidewall	1811358-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-92-Sidewall	1811358-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****L-07**

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

Analyte & Samples(s) Qualified:**4,4'-DDT**

B213611-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:**4,4'-DDE [2C]**

B213611-BLK1, B213611-BS1, B213611-BSD1

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

1811358-01[OU2-SED-22-Bottom], 1811358-02[OU2-SED-23-Bottom], 1811358-03[OU2-SED-24-Bottom], 1811358-04[OU2-SED-25-Bottom], 1811358-05[OU2-SED-26-Bottom], 1811358-06[OU2-SED-85-Sidewall], 1811358-08[OU2-SED-88-Sidewall], 1811358-09[OU2-SED-89-Sidewall], 1811358-10[OU2-SED-92-Sidewall]

Decachlorobiphenyl [2C]

1811358-06[OU2-SED-85-Sidewall], 1811358-09[OU2-SED-89-Sidewall], 1811358-10[OU2-SED-92-Sidewall]

Tetrachloro-m-xylene [2C]

1811358-02[OU2-SED-23-Bottom], 1811358-03[OU2-SED-24-Bottom], 1811358-06[OU2-SED-85-Sidewall], 1811358-09[OU2-SED-89-Sidewall], 1811358-10[OU2-SED-92-Sidewall]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-22-Bottom

Sample ID: 1811358-01

Start Date/Time: 9/27/2018 4:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 7:56	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					10/1/18	7:56	
Toluene-d8		100	70-130					10/1/18	7:56	
4-Bromofluorobenzene		102	70-130					10/1/18	7:56	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-22-Bottom

Sample ID: 1811358-01

Start Date/Time: 9/27/2018 4:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:26	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		64.0	30-130						10/1/18 10:26	
2-Fluorobiphenyl		72.2	30-130						10/1/18 10:26	
p-Terphenyl-d14		77.2	30-130						10/1/18 10:26	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-22-Bottom

Sample ID: 1811358-01

Start Date/Time: 9/27/2018 4:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 17:49	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 17:49	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 17:49	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 17:49	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	155	*	30-150		S-17		10/1/18 17:49			
Decachlorobiphenyl [2]	137		30-150				10/1/18 17:49			
Tetrachloro-m-xylene [1]	122		30-150				10/1/18 17:49			
Tetrachloro-m-xylene [2]	145		30-150				10/1/18 17:49			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-22-Bottom

Sample ID: 1811358-01

Start Date/Time: 9/27/2018 4:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	10/1/18	10/1/18 22:03	DMP

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-23-Bottom

Sample ID: 1811358-02

Start Date/Time: 9/27/2018 4:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:25	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		109	70-130					10/1/18	8:25	
Toluene-d8		99.9	70-130					10/1/18	8:25	
4-Bromofluorobenzene		101	70-130					10/1/18	8:25	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-23-Bottom

Sample ID: 1811358-02

Start Date/Time: 9/27/2018 4:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 10:51	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		46.4	30-130						10/1/18 10:51	
2-Fluorobiphenyl		53.6	30-130						10/1/18 10:51	
p-Terphenyl-d14		61.3	30-130						10/1/18 10:51	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-23-Bottom

Sample ID: 1811358-02

Start Date/Time: 9/27/2018 4:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:16	PJG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:16	PJG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:16	PJG
Endosulfan II [1]	ND	0.010	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:16	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	156	*	30-150		S-17				10/1/18 18:16	
Decachlorobiphenyl [2]	142		30-150						10/1/18 18:16	
Tetrachloro-m-xylene [1]	128		30-150						10/1/18 18:16	
Tetrachloro-m-xylene [2]	155	*	30-150		S-17				10/1/18 18:16	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-23-Bottom

Sample ID: 1811358-02

Start Date/Time: 9/27/2018 4:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:40:00PM

Conventional 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	10/1/18	10/1/18 22:03	DMP

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-24-Bottom

Sample ID: 1811358-03

Start Date/Time: 9/27/2018 4:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:52:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 8:52	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					10/1/18	8:52	
Toluene-d8		99.3	70-130					10/1/18	8:52	
4-Bromofluorobenzene		99.3	70-130					10/1/18	8:52	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-24-Bottom

Sample ID: 1811358-03

Start Date/Time: 9/27/2018 4:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:52:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 11:17	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		57.2	30-130						10/1/18 11:17	
2-Fluorobiphenyl		66.5	30-130						10/1/18 11:17	
p-Terphenyl-d14		75.6	30-130						10/1/18 11:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-24-Bottom

Sample ID: 1811358-03

Start Date/Time: 9/27/2018 4:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:52:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:42	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:42	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:42	PJG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 18:42	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	164	*	30-150		S-17		10/1/18 18:42			
Decachlorobiphenyl [2]	148		30-150				10/1/18 18:42			
Tetrachloro-m-xylene [1]	125		30-150				10/1/18 18:42			
Tetrachloro-m-xylene [2]	151	*	30-150		S-17		10/1/18 18:42			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-24-Bottom

Sample ID: 1811358-03

Start Date/Time: 9/27/2018 4:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:52:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	10/1/18	10/1/18 22:03	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-25-Bottom

Sample ID: 1811358-04

Start Date/Time: 9/27/2018 5:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:19	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	99.3	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-25-Bottom

Sample ID: 1811358-04

Start Date/Time: 9/27/2018 5:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 13:25	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.0	30-130						10/1/18 13:25	
2-Fluorobiphenyl		68.0	30-130						10/1/18 13:25	
p-Terphenyl-d14		75.4	30-130						10/1/18 13:25	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-25-Bottom

Sample ID: 1811358-04

Start Date/Time: 9/27/2018 5:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:15:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:09	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:09	PJG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:09	PJG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:09	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	157	*	30-150			S-17			10/1/18 19:09	
Decachlorobiphenyl [2]	141		30-150						10/1/18 19:09	
Tetrachloro-m-xylene [1]	117		30-150						10/1/18 19:09	
Tetrachloro-m-xylene [2]	140		30-150						10/1/18 19:09	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-25-Bottom

Sample ID: 1811358-04

Start Date/Time: 9/27/2018 5:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:15:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	10/1/18	10/1/18 22:03	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-26-Bottom

Sample ID: 1811358-05

Start Date/Time: 9/27/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 9:48	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130						10/1/18 9:48	
Toluene-d8		97.9	70-130						10/1/18 9:48	
4-Bromofluorobenzene		102	70-130						10/1/18 9:48	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-26-Bottom

Sample ID: 1811358-05

Start Date/Time: 9/27/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:30:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:19	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.4	30-130						10/1/18 14:19	
2-Fluorobiphenyl		61.2	30-130						10/1/18 14:19	
p-Terphenyl-d14		70.3	30-130						10/1/18 14:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-26-Bottom

Sample ID: 1811358-05

Start Date/Time: 9/27/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:36	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:36	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:36	PJG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 19:36	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	160	*	30-150		S-17		10/1/18 19:36			
Decachlorobiphenyl [2]	145		30-150				10/1/18 19:36			
Tetrachloro-m-xylene [1]	114		30-150				10/1/18 19:36			
Tetrachloro-m-xylene [2]	132		30-150				10/1/18 19:36			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-26-Bottom

Sample ID: 1811358-05

Start Date/Time: 9/27/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:30:00PM

Conventional 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	10/1/18	10/1/18 22:03	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-85-Sidewall

Sample ID: 1811358-06

Start Date/Time: 9/27/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:15	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130						10/1/18 10:15	
Toluene-d8		97.4	70-130						10/1/18 10:15	
4-Bromofluorobenzene		98.9	70-130						10/1/18 10:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-85-Sidewall

Sample ID: 1811358-06

Start Date/Time: 9/27/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 14:45	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.9	30-130						10/1/18 14:45	
2-Fluorobiphenyl		68.4	30-130						10/1/18 14:45	
p-Terphenyl-d14		81.1	30-130						10/1/18 14:45	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-85-Sidewall

Sample ID: 1811358-06

Start Date/Time: 9/27/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:03	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:03	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:03	PJG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	193 *	30-150	S-17
Decachlorobiphenyl [2]	176 *	30-150	S-17
Tetrachloro-m-xylene [1]	132	30-150	
Tetrachloro-m-xylene [2]	158 *	30-150	S-17

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-85-Sidewall

Sample ID: 1811358-06

Start Date/Time: 9/27/2018 4:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:00:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	10/1/18	10/1/18 22:04	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-86-Sidewall

Sample ID: 1811358-07

Start Date/Time: 9/27/2018 5:02:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:06:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 10:42	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					10/1/18	10:42	
Toluene-d8		97.4	70-130					10/1/18	10:42	
4-Bromofluorobenzene		97.4	70-130					10/1/18	10:42	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-86-Sidewall

Sample ID: 1811358-07

Start Date/Time: 9/27/2018 5:02:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:06:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:11	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		52.2	30-130						10/1/18 15:11	
2-Fluorobiphenyl		64.2	30-130						10/1/18 15:11	
p-Terphenyl-d14		66.6	30-130						10/1/18 15:11	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-86-Sidewall

Sample ID: 1811358-07

Start Date/Time: 9/27/2018 5:02:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:06:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:30	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:30	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:30	PJG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:30	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	146		30-150				10/1/18 20:30			
Decachlorobiphenyl [2]	135		30-150				10/1/18 20:30			
Tetrachloro-m-xylene [1]	97.1		30-150				10/1/18 20:30			
Tetrachloro-m-xylene [2]	117		30-150				10/1/18 20:30			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-86-Sidewall

Sample ID: 1811358-07

Start Date/Time: 9/27/2018 5:02:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:06:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	10/1/18	10/1/18 22:04	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-88-Sidewall

Sample ID: 1811358-08

Start Date/Time: 9/27/2018 5:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:24:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:09	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/1/18 11:09	
Toluene-d8		97.0	70-130						10/1/18 11:09	
4-Bromofluorobenzene		99.2	70-130						10/1/18 11:09	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-88-Sidewall

Sample ID: 1811358-08

Start Date/Time: 9/27/2018 5:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:24:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 15:38	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.4	30-130						10/1/18 15:38	
2-Fluorobiphenyl		59.0	30-130						10/1/18 15:38	
p-Terphenyl-d14		63.4	30-130						10/1/18 15:38	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-88-Sidewall

Sample ID: 1811358-08

Start Date/Time: 9/27/2018 5:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:24:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:56	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:56	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:56	PJG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 20:56	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	151	*	30-150		S-17		10/1/18 20:56			
Decachlorobiphenyl [2]	136		30-150				10/1/18 20:56			
Tetrachloro-m-xylene [1]	99.4		30-150				10/1/18 20:56			
Tetrachloro-m-xylene [2]	119		30-150				10/1/18 20:56			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-88-Sidewall

Sample ID: 1811358-08

Start Date/Time: 9/27/2018 5:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:24:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	10/1/18	10/1/18 22:04	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-89-Sidewall

Sample ID: 1811358-09

Start Date/Time: 9/27/2018 5:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:32:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
Toluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 11:38	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						10/1/18 11:38	
Toluene-d8		98.1	70-130						10/1/18 11:38	
4-Bromofluorobenzene		101	70-130						10/1/18 11:38	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-89-Sidewall

Sample ID: 1811358-09

Start Date/Time: 9/27/2018 5:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:32:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:04	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		57.3	30-130						10/1/18 16:04	
2-Fluorobiphenyl		65.7	30-130						10/1/18 16:04	
p-Terphenyl-d14		71.0	30-130						10/1/18 16:04	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-89-Sidewall

Sample ID: 1811358-09

Start Date/Time: 9/27/2018 5:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:32:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:23	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:23	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:23	PJG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:23	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	182	*	30-150		S-17				10/1/18 21:23	
Decachlorobiphenyl [2]	165	*	30-150		S-17				10/1/18 21:23	
Tetrachloro-m-xylene [1]	130		30-150						10/1/18 21:23	
Tetrachloro-m-xylene [2]	155	*	30-150		S-17				10/1/18 21:23	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-89-Sidewall

Sample ID: 1811358-09

Start Date/Time: 9/27/2018 5:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:32:00PM

Conventional 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	10/1/18	10/1/18 22:04	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-92-Sidewall

Sample ID: 1811358-10

Start Date/Time: 9/27/2018 5:54:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
Isopropylbenzene (Cumene)	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	98.7	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-92-Sidewall

Sample ID: 1811358-10

Start Date/Time: 9/27/2018 5:54:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.5	30-130						10/1/18 16:30	
2-Fluorobiphenyl		60.4	30-130						10/1/18 16:30	
p-Terphenyl-d14		65.7	30-130						10/1/18 16:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-92-Sidewall

Sample ID: 1811358-10

Start Date/Time: 9/27/2018 5:54:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:50	PJG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:50	PJG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:50	PJG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/1/18 21:50	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	168 *	30-150	S-17
Decachlorobiphenyl [2]	152 *	30-150	S-17
Tetrachloro-m-xylene [1]	129	30-150	
Tetrachloro-m-xylene [2]	153 *	30-150	S-17

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811358

Date Received: 9/29/2018

Field Sample #: OU2-SED-92-Sidewall

Sample ID: 1811358-10

Start Date/Time: 9/27/2018 5:54:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:00:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	10/1/18	10/1/18 22:04	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I1358-01 [OU2-SED-22-Bottom]	B213636	10/01/18
18I1358-02 [OU2-SED-23-Bottom]	B213636	10/01/18
18I1358-03 [OU2-SED-24-Bottom]	B213636	10/01/18
18I1358-04 [OU2-SED-25-Bottom]	B213636	10/01/18
18I1358-05 [OU2-SED-26-Bottom]	B213636	10/01/18
18I1358-06 [OU2-SED-85-Sidewall]	B213636	10/01/18
18I1358-07 [OU2-SED-86-Sidewall]	B213636	10/01/18
18I1358-08 [OU2-SED-88-Sidewall]	B213636	10/01/18
18I1358-09 [OU2-SED-89-Sidewall]	B213636	10/01/18
18I1358-10 [OU2-SED-92-Sidewall]	B213636	10/01/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1358-01 [OU2-SED-22-Bottom]	B213611	10.0	10.0	09/29/18
18I1358-02 [OU2-SED-23-Bottom]	B213611	10.0	10.0	09/29/18
18I1358-03 [OU2-SED-24-Bottom]	B213611	10.0	10.0	09/29/18
18I1358-04 [OU2-SED-25-Bottom]	B213611	10.0	10.0	09/29/18
18I1358-05 [OU2-SED-26-Bottom]	B213611	10.0	10.0	09/29/18
18I1358-06 [OU2-SED-85-Sidewall]	B213611	10.0	10.0	09/29/18
18I1358-07 [OU2-SED-86-Sidewall]	B213611	10.0	10.0	09/29/18
18I1358-08 [OU2-SED-88-Sidewall]	B213611	10.0	10.0	09/29/18
18I1358-09 [OU2-SED-89-Sidewall]	B213611	10.0	10.0	09/29/18
18I1358-10 [OU2-SED-92-Sidewall]	B213611	10.0	10.0	09/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1358-01 [OU2-SED-22-Bottom]	B213664	8.43	10.0	10/01/18
18I1358-02 [OU2-SED-23-Bottom]	B213664	8.37	10.0	10/01/18
18I1358-03 [OU2-SED-24-Bottom]	B213664	7.75	10.0	10/01/18
18I1358-04 [OU2-SED-25-Bottom]	B213664	8.14	10.0	10/01/18
18I1358-05 [OU2-SED-26-Bottom]	B213664	8.06	10.0	10/01/18
18I1358-06 [OU2-SED-85-Sidewall]	B213664	7.87	10.0	10/01/18
18I1358-07 [OU2-SED-86-Sidewall]	B213664	8.29	10.0	10/01/18
18I1358-08 [OU2-SED-88-Sidewall]	B213664	7.72	10.0	10/01/18
18I1358-09 [OU2-SED-89-Sidewall]	B213664	7.25	10.0	10/01/18
18I1358-10 [OU2-SED-92-Sidewall]	B213664	8.80	10.0	10/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1358-01 [OU2-SED-22-Bottom]	B213613	30.0	1.00	09/29/18
18I1358-02 [OU2-SED-23-Bottom]	B213613	30.0	1.00	09/29/18
18I1358-03 [OU2-SED-24-Bottom]	B213613	30.0	1.00	09/29/18
18I1358-04 [OU2-SED-25-Bottom]	B213613	30.0	1.00	09/29/18
18I1358-05 [OU2-SED-26-Bottom]	B213613	30.0	1.00	09/29/18
18I1358-06 [OU2-SED-85-Sidewall]	B213613	30.0	1.00	09/29/18
18I1358-07 [OU2-SED-86-Sidewall]	B213613	30.0	1.00	09/29/18
18I1358-08 [OU2-SED-88-Sidewall]	B213613	30.0	1.00	09/29/18
18I1358-09 [OU2-SED-89-Sidewall]	B213613	30.0	1.00	09/29/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1358-10 [OU2-SED-92-Sidewall]	B213613	30.0	1.00	09/29/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213664 - SW-846 5035										
Blank (B213664-BLK1)										
Prepared & Analyzed: 10/01/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.6	70-130			
LCS (B213664-BS1)										
Prepared & Analyzed: 10/01/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Toluene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
m+p Xylene	0.0380	0.0040	mg/Kg wet	0.0400		95.0	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0526		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B213664-BSD1)										
Prepared & Analyzed: 10/01/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	0.104	25	
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	1.24	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	5.57	25	
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	3.87	25	
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	3.24	25	
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.0400		96.9	70-130	1.93	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	0.208	25	
Surrogate: 1,2-Dichloroethane-d4	0.0528		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213613 - SW-846 3546										
Blank (B213613-BLK1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.2	30-130			
Surrogate: p-Terphenyl-d14	2.82		mg/Kg wet	3.33		84.7	30-130			
LCS (B213613-BS1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Acenaphthylene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Chrysene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Fluorene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Pyrene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Surrogate: Nitrobenzene-d5	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.33		76.1	30-130			
Surrogate: p-Terphenyl-d14	2.74		mg/Kg wet	3.33		82.0	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213613 - SW-846 3546										
LCS Dup (B213613-BSD1)										
					Prepared: 09/29/18 Analyzed: 10/01/18					
Acenaphthene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140	5.07	30	
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	5.59	30	
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.81	30	
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	4.00	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	6.30	30	
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	7.66	30	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	6.94	30	
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	6.77	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	3.93	30	
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	6.33	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	3.18	30	
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	1.49	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	4.73	30	
2-Methylnaphthalene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140	8.69	30	
Naphthalene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	7.76	30	
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	5.20	30	
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	8.18	30	
Surrogate: Nitrobenzene-d5	2.34		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.0	30-130			
Surrogate: p-Terphenyl-d14	2.86		mg/Kg wet	3.33		85.9	30-130			

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

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213611 - SW-846 3546										
Blank (B213611-BLK1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							R-05
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.243		mg/Kg wet	0.200		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		106	30-150			
LCS (B213611-BS1)										
Prepared: 09/29/18 Analyzed: 10/02/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		105	40-140			
4,4'-DDE [2C]	0.093	0.0040	mg/Kg wet	0.100		93.1	40-140			R-05
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.100		109	40-140			
4,4'-DDT [2C]	0.091	0.0040	mg/Kg wet	0.100		90.5	40-140			
Endosulfan I	0.095	0.0050	mg/Kg wet	0.100		94.9	40-140			
Endosulfan I [2C]	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
Endosulfan II	0.099	0.0080	mg/Kg wet	0.100		99.5	40-140			
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		84.0	30-150			
LCS Dup (B213611-BSD1)										
Prepared: 09/29/18 Analyzed: 10/02/18										
4,4'-DDE	0.14	0.0040	mg/Kg wet	0.100		139	40-140	27.9	30	
4,4'-DDE [2C]	0.13	0.0040	mg/Kg wet	0.100		128	40-140	31.8 *	30	R-05
4,4'-DDT	0.15	0.0040	mg/Kg wet	0.100		146 *	40-140	29.8	30	L-07
4,4'-DDT [2C]	0.12	0.0040	mg/Kg wet	0.100		121	40-140	28.6	30	
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		99.7	40-140	4.92	30	
Endosulfan I [2C]	0.091	0.0050	mg/Kg wet	0.100		91.0	40-140	4.98	30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.100		114	40-140	13.6	30	
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		105	40-140	13.8	30	
Surrogate: Decachlorobiphenyl	0.283		mg/Kg wet	0.200		141	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.273		mg/Kg wet	0.200		136	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.208		mg/Kg wet	0.200		104	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
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.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1811358



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

LAND remediation

Address: 74 Hudson River Road Waterford, NY

Company Name: **NYSDEC Saranac Lake Gas Co.**
 Project Name: **OU_2 Sed**
 Project Location: **Matthew Warren**

Project Number:
 Project Manager:
 Con-Test Quote Name/Number: **mjlw@land-remediation.com**
 Invoice Recipient:
 Sampled By: **Ethan Brandt**

Requested Turnaround Time

7-Day 10-Day
 Due Date:
 Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: **mjlw@land-remediation.com**
 Fax To #:

Doc # 380 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

of Containers
 Preservation Code
 Container Code
 Dissolved Metals Samples
 Field Filtered
 Lab to Filter
 Orthophosphate Samples
 Field Filtered
 Lab to Filter

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-22-Bottom	9/27/2018 16:25	9/27/2018 16:30		X	S	L
2	OU2-SED-23-Bottom	9/27/2018 16:35	9/27/2018 16:40		X	S	L
3	OU2-SED-24-Bottom	9/27/2018 16:45	9/27/2018 16:50		X	S	L
4	OU2-SED-25-Bottom	9/27/2018 17:05	9/27/2018 17:10		X	S	L
5	OU2-SED-26-Bottom	9/27/2018 17:15	9/27/2018 17:20		X	S	L
6	OU2-SED-85-Sidewall	9/27/2018 16:55	9/27/2018 17:00		X	S	L
7	OU2-SED-86-Sidewall	9/27/2018 17:05	9/27/2018 17:10		X	S	L
8	OU2-SED-88-Sidewall	9/27/2018 17:15	9/27/2018 17:20		X	S	L
9	OU2-SED-89-Sidewall	9/27/2018 17:25	9/27/2018 17:30		X	S	L
10	OU2-SED-92-Sidewall	9/27/2018 17:35	9/27/2018 17:40		X	S	L

ANALYSIS REQUESTED

8081*
 8260 Standard
 8270 PAH

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

Relinquished by: (signature) *[Signature]* Date/Time: 9/28 15:00
 Received by: (signature) *[Signature]* 2.7 9/26/18 Date/Time: 1059
 Relinquished by: (signature)
 Received by: (signature)
 Relinquished by: (signature)
 Received by: (signature)

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

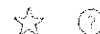
Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC
 Other: **NEAC and AIHA-LAP, LLC Accredited**



Web ID

TRACK ANOTHER SHIPMENT

858841565710



Delivered
Saturday 9/29/2018 at 10:59 am



DELIVERED

Signed for by: M.PAUL

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US

<u>Travel History</u>	Multiple-piece Shipment	Shipment Facts
9/29/2018 - Saturday	10:59 am	Delivered MA
Expand History		
9/28/2018 - Friday	4:32 pm	Picked up PLATTSBURGH, NY

OUR COMPANY

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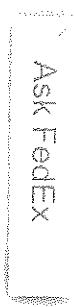
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- FedEx Cross Border

LANGUAGE

Change Country

English



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 9/29/18 Time 1059

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 # 557 Actual Temp - 27
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? Mike R

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>10</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>20</u>	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:

October 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1359

Enclosed are results of analyses for samples received by the laboratory on September 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 10/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1811359

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-27-sidewall	1811359-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-28-Bottom	1811359-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-83-Sidewall	1811359-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-84-Sidewall	1811359-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-87-sidewall	1811359-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-90-Sidewall	1811359-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-91-Sidewall	1811359-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-93-Sidewall	1811359-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****L-07**

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

Analyte & Samples(s) Qualified:**4,4'-DDT**

B213611-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:**4,4'-DDE [2C]**

B213611-BLK1, B213611-BS1, B213611-BSD1

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

1811359-01[OU2-SED-27-sidewall], 1811359-02[OU2-SED-28-Bottom], 1811359-03[OU2-SED-83-Sidewall], 1811359-06[OU2-SED-90-Sidewall]

Decachlorobiphenyl [2C]

1811359-01[OU2-SED-27-sidewall], 1811359-03[OU2-SED-83-Sidewall], 1811359-06[OU2-SED-90-Sidewall]

Tetrachloro-m-xylene

1811359-03[OU2-SED-83-Sidewall]

Tetrachloro-m-xylene [2C]

1811359-01[OU2-SED-27-sidewall], 1811359-03[OU2-SED-83-Sidewall]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-27-sidewall

Sampled: 9/27/2018 17:30

Sample ID: 1811359-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 12:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/1/18 12:32	
Toluene-d8		99.0	70-130						10/1/18 12:32	
4-Bromofluorobenzene		99.6	70-130						10/1/18 12:32	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-27-sidewall

Sampled: 9/27/2018 17:30

Sample ID: 1811359-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 16:56	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		57.2	30-130						10/1/18 16:56	
2-Fluorobiphenyl		64.1	30-130						10/1/18 16:56	
p-Terphenyl-d14		70.8	30-130						10/1/18 16:56	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-27-sidewall

Sampled: 9/27/2018 17:30

Sample ID: 1811359-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:24	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:24	PJG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:24	PJG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:24	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	166	*	30-150		S-17				10/2/18 1:24	
Decachlorobiphenyl [2]	154	*	30-150		S-17				10/2/18 1:24	
Tetrachloro-m-xylene [1]	138		30-150						10/2/18 1:24	
Tetrachloro-m-xylene [2]	163	*	30-150		S-17				10/2/18 1:24	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-27-sidewall

Sampled: 9/27/2018 17:30

Sample ID: 1811359-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	10/1/18	10/1/18 22:04	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-28-Bottom

Sample ID: 1811359-02

Start Date/Time: 9/27/2018 5:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:03:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
Ethylbenzene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
Toluene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:01	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						10/1/18 13:01	
Toluene-d8		98.9	70-130						10/1/18 13:01	
4-Bromofluorobenzene		101	70-130						10/1/18 13:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-28-Bottom

Sample ID: 1811359-02

Start Date/Time: 9/27/2018 5:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:03:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:22	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.1	30-130						10/1/18 17:22	
2-Fluorobiphenyl		61.7	30-130						10/1/18 17:22	
p-Terphenyl-d14		68.7	30-130						10/1/18 17:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-28-Bottom

Sample ID: 1811359-02

Start Date/Time: 9/27/2018 5:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:03:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:50	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:50	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:50	PJG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 1:50	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	154	*	30-150		S-17			10/2/18	1:50	
Decachlorobiphenyl [2]	142		30-150					10/2/18	1:50	
Tetrachloro-m-xylene [1]	119		30-150					10/2/18	1:50	
Tetrachloro-m-xylene [2]	140		30-150					10/2/18	1:50	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-28-Bottom

Sample ID: 1811359-02

Start Date/Time: 9/27/2018 5:57:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:03:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-83-Sidewall

Sample ID: 1811359-03

Start Date/Time: 9/27/2018 4:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:35:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:29	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/1/18 13:29	
Toluene-d8		98.5	70-130						10/1/18 13:29	
4-Bromofluorobenzene		99.9	70-130						10/1/18 13:29	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-83-Sidewall

Sample ID: 1811359-03

Start Date/Time: 9/27/2018 4:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:35:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 17:48	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.6	30-130						10/1/18 17:48	
2-Fluorobiphenyl		61.1	30-130						10/1/18 17:48	
p-Terphenyl-d14		66.7	30-130						10/1/18 17:48	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-83-Sidewall

Sample ID: 1811359-03

Start Date/Time: 9/27/2018 4:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:35:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:10	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:10	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:10	PJG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:10	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	179	*	30-150		S-17				10/2/18 11:10	
Decachlorobiphenyl [2]	174	*	30-150		S-17				10/2/18 11:10	
Tetrachloro-m-xylene [1]	154	*	30-150		S-17				10/2/18 11:10	
Tetrachloro-m-xylene [2]	185	*	30-150		S-17				10/2/18 11:10	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-83-Sidewall

Sample ID: 1811359-03

Start Date/Time: 9/27/2018 4:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:35:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-84-Sidewall

Sample ID: 1811359-04

Start Date/Time: 9/27/2018 4:40:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:45:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
Ethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
Toluene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
1,2,4-Trimethylbenzene	0.0017	0.0018	0.00071	mg/Kg dry	1	J	SW-846 8260C	10/1/18	10/1/18 13:58	MF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
o-Xylene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
Xylenes (total)	ND	0.0053		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 13:58	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130						10/1/18 13:58	
Toluene-d8		96.8	70-130						10/1/18 13:58	
4-Bromofluorobenzene		100	70-130						10/1/18 13:58	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-84-Sidewall

Sample ID: 1811359-04

Start Date/Time: 9/27/2018 4:40:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:45:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	0.072	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Acenaphthylene	ND	0.24	0.080	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Anthracene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Benzo(a)anthracene	ND	0.24	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Benzo(a)pyrene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Benzo(b)fluoranthene	ND	0.24	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Benzo(g,h,i)perylene	ND	0.24	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Benzo(k)fluoranthene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Chrysene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Dibenz(a,h)anthracene	ND	0.24	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Fluoranthene	ND	0.24	0.079	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Fluorene	ND	0.24	0.077	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
2-Methylnaphthalene	ND	0.24	0.083	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Naphthalene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Phenanthrene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Pyrene	ND	0.24	0.079	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:14	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.2	30-130						10/1/18 18:14	
2-Fluorobiphenyl		58.7	30-130						10/1/18 18:14	
p-Terphenyl-d14		61.2	30-130						10/1/18 18:14	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-84-Sidewall

Sample ID: 1811359-04

Start Date/Time: 9/27/2018 4:40:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:45:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0056	0.00042	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:37	PJG
4,4'-DDT [1]	ND	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:37	PJG
Endosulfan I [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:37	PJG
Endosulfan II [1]	ND	0.011	0.00042	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 11:37	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	137		30-150				10/2/18 11:37			
Decachlorobiphenyl [2]	141		30-150				10/2/18 11:37			
Tetrachloro-m-xylene [1]	100		30-150				10/2/18 11:37			
Tetrachloro-m-xylene [2]	118		30-150				10/2/18 11:37			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-84-Sidewall

Sample ID: 1811359-04

Start Date/Time: 9/27/2018 4:40:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 4:45:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.0		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-87-sidewall

Sample ID: 1811359-05

Start Date/Time: 9/27/2018 5:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:25	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130						10/1/18 14:25	
Toluene-d8		99.4	70-130						10/1/18 14:25	
4-Bromofluorobenzene		101	70-130						10/1/18 14:25	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-87-sidewall

Sample ID: 1811359-05

Start Date/Time: 9/27/2018 5:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 18:39	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.5	30-130						10/1/18 18:39	
2-Fluorobiphenyl		58.8	30-130						10/1/18 18:39	
p-Terphenyl-d14		62.0	30-130						10/1/18 18:39	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-87-sidewall

Sample ID: 1811359-05

Start Date/Time: 9/27/2018 5:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 12:03	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 12:03	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 12:03	PJG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 12:03	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	119		30-150						10/2/18 12:03	
Decachlorobiphenyl [2]	117		30-150						10/2/18 12:03	
Tetrachloro-m-xylene [1]	106		30-150						10/2/18 12:03	
Tetrachloro-m-xylene [2]	124		30-150						10/2/18 12:03	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-87-sidewall

Sample ID: 1811359-05

Start Date/Time: 9/27/2018 5:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:20:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-90-Sidewall

Sample ID: 1811359-06

Start Date/Time: 9/27/2018 5:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
Ethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
Isopropylbenzene (Cumene)	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
Toluene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
1,2,4-Trimethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
o-Xylene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 14:52	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						10/1/18 14:52	
Toluene-d8		98.2	70-130						10/1/18 14:52	
4-Bromofluorobenzene		101	70-130						10/1/18 14:52	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-90-Sidewall

Sample ID: 1811359-06

Start Date/Time: 9/27/2018 5:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:05	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.2	30-130						10/1/18 19:05	
2-Fluorobiphenyl		66.0	30-130						10/1/18 19:05	
p-Terphenyl-d14		68.6	30-130						10/1/18 19:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-90-Sidewall

Sample ID: 1811359-06

Start Date/Time: 9/27/2018 5:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 3:37	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 3:37	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 3:37	PJG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 3:37	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	165	*	30-150		S-17				10/2/18 3:37	
Decachlorobiphenyl [2]	157	*	30-150		S-17				10/2/18 3:37	
Tetrachloro-m-xylene [1]	102		30-150						10/2/18 3:37	
Tetrachloro-m-xylene [2]	120		30-150						10/2/18 3:37	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-90-Sidewall

Sample ID: 1811359-06

Start Date/Time: 9/27/2018 5:35:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:40:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-91-Sidewall

Sample ID: 1811359-07

Start Date/Time: 9/27/2018 5:46:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:19	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		100	70-130						10/1/18 15:19	
Toluene-d8		98.4	70-130						10/1/18 15:19	
4-Bromofluorobenzene		98.6	70-130						10/1/18 15:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-91-Sidewall

Sample ID: 1811359-07

Start Date/Time: 9/27/2018 5:46:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:50:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/29/18	10/1/18 19:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		62.8	30-130						10/1/18 19:30	
2-Fluorobiphenyl		74.6	30-130						10/1/18 19:30	
p-Terphenyl-d14		75.6	30-130						10/1/18 19:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-91-Sidewall

Sample ID: 1811359-07

Start Date/Time: 9/27/2018 5:46:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:50:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:04	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:04	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:04	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:04	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	112		30-150						10/2/18 4:04	
Decachlorobiphenyl [2]	106		30-150						10/2/18 4:04	
Tetrachloro-m-xylene [1]	77.3		30-150						10/2/18 4:04	
Tetrachloro-m-xylene [2]	90.6		30-150						10/2/18 4:04	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-91-Sidewall

Sample ID: 1811359-07

Start Date/Time: 9/27/2018 5:46:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 5:50:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	10/1/18	10/1/18 22:05	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-93-Sidewall

Sample ID: 1811359-08

Start Date/Time: 9/27/2018 6:05:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	10/1/18	10/1/18 15:48	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130						10/1/18 15:48	
Toluene-d8		99.0	70-130						10/1/18 15:48	
4-Bromofluorobenzene		102	70-130						10/1/18 15:48	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-93-Sidewall

Sample ID: 1811359-08

Start Date/Time: 9/27/2018 6:05:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/29/18	10/2/18 11:22	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.8	30-130						10/2/18 11:22	
2-Fluorobiphenyl		61.0	30-130						10/2/18 11:22	
p-Terphenyl-d14		70.0	30-130						10/2/18 11:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-93-Sidewall

Sample ID: 1811359-08

Start Date/Time: 9/27/2018 6:05:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:31	PJG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:31	PJG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:31	PJG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/29/18	10/2/18 4:31	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	149		30-150				10/2/18 4:31			
Decachlorobiphenyl [2]	140		30-150				10/2/18 4:31			
Tetrachloro-m-xylene [1]	98.5		30-150				10/2/18 4:31			
Tetrachloro-m-xylene [2]	116		30-150				10/2/18 4:31			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1811359

Date Received: 9/29/2018

Field Sample #: OU2-SED-93-Sidewall

Sample ID: 1811359-08

Start Date/Time: 9/27/2018 6:05:00PM

Sample Matrix: Soil

Stop Date/Time: 9/27/2018 6:10:00PM

Conventional 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	10/1/18	10/1/18 22:06	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I1359-01 [OU2-SED-27-sidewall]	B213636	10/01/18
18I1359-02 [OU2-SED-28-Bottom]	B213636	10/01/18
18I1359-03 [OU2-SED-83-Sidewall]	B213636	10/01/18
18I1359-04 [OU2-SED-84-Sidewall]	B213636	10/01/18
18I1359-05 [OU2-SED-87-sidewall]	B213636	10/01/18
18I1359-06 [OU2-SED-90-Sidewall]	B213636	10/01/18
18I1359-07 [OU2-SED-91-Sidewall]	B213636	10/01/18
18I1359-08 [OU2-SED-93-Sidewall]	B213636	10/01/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1359-01 [OU2-SED-27-sidewall]	B213611	10.0	10.0	09/29/18
18I1359-02 [OU2-SED-28-Bottom]	B213611	10.0	10.0	09/29/18
18I1359-03 [OU2-SED-83-Sidewall]	B213611	10.0	10.0	09/29/18
18I1359-04 [OU2-SED-84-Sidewall]	B213611	10.0	10.0	09/29/18
18I1359-05 [OU2-SED-87-sidewall]	B213611	10.0	10.0	09/29/18
18I1359-06 [OU2-SED-90-Sidewall]	B213611	10.0	10.0	09/29/18
18I1359-07 [OU2-SED-91-Sidewall]	B213611	10.0	10.0	09/29/18
18I1359-08 [OU2-SED-93-Sidewall]	B213611	10.0	10.0	09/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1359-01 [OU2-SED-27-sidewall]	B213664	8.33	10.0	10/01/18
18I1359-02 [OU2-SED-28-Bottom]	B213664	8.68	10.0	10/01/18
18I1359-03 [OU2-SED-83-Sidewall]	B213664	8.66	10.0	10/01/18
18I1359-04 [OU2-SED-84-Sidewall]	B213664	7.92	10.0	10/01/18
18I1359-05 [OU2-SED-87-sidewall]	B213664	8.49	10.0	10/01/18
18I1359-06 [OU2-SED-90-Sidewall]	B213664	9.07	10.0	10/01/18
18I1359-07 [OU2-SED-91-Sidewall]	B213664	8.91	10.0	10/01/18
18I1359-08 [OU2-SED-93-Sidewall]	B213664	7.99	10.0	10/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1359-01 [OU2-SED-27-sidewall]	B213613	30.0	1.00	09/29/18
18I1359-02 [OU2-SED-28-Bottom]	B213613	30.0	1.00	09/29/18
18I1359-03 [OU2-SED-83-Sidewall]	B213613	30.0	1.00	09/29/18
18I1359-04 [OU2-SED-84-Sidewall]	B213613	30.0	1.00	09/29/18
18I1359-05 [OU2-SED-87-sidewall]	B213613	30.0	1.00	09/29/18
18I1359-06 [OU2-SED-90-Sidewall]	B213613	30.0	1.00	09/29/18
18I1359-07 [OU2-SED-91-Sidewall]	B213613	30.0	1.00	09/29/18
18I1359-08 [OU2-SED-93-Sidewall]	B213613	30.0	1.00	09/29/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213664 - SW-846 5035										
Blank (B213664-BLK1)										
Prepared & Analyzed: 10/01/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.6	70-130			
LCS (B213664-BS1)										
Prepared & Analyzed: 10/01/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Toluene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
m+p Xylene	0.0380	0.0040	mg/Kg wet	0.0400		95.0	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0526		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B213664-BSD1)										
Prepared & Analyzed: 10/01/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	0.104	25	
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	1.24	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	5.57	25	
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	3.87	25	
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	3.24	25	
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.0400		96.9	70-130	1.93	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	0.208	25	
Surrogate: 1,2-Dichloroethane-d4	0.0528		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213613 - SW-846 3546										
Blank (B213613-BLK1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.2	30-130			
Surrogate: p-Terphenyl-d14	2.82		mg/Kg wet	3.33		84.7	30-130			
LCS (B213613-BS1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Acenaphthylene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Chrysene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Fluorene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Pyrene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Surrogate: Nitrobenzene-d5	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.33		76.1	30-130			
Surrogate: p-Terphenyl-d14	2.74		mg/Kg wet	3.33		82.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213613 - SW-846 3546										
LCS Dup (B213613-BSD1)										
					Prepared: 09/29/18 Analyzed: 10/01/18					
Acenaphthene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140	5.07	30	
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	5.59	30	
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.81	30	
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	4.00	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	6.30	30	
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	7.66	30	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	6.94	30	
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	6.77	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	3.93	30	
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	6.33	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	3.18	30	
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	1.49	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	4.73	30	
2-Methylnaphthalene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140	8.69	30	
Naphthalene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	7.76	30	
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	5.20	30	
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	8.18	30	
Surrogate: Nitrobenzene-d5	2.34		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.0	30-130			
Surrogate: p-Terphenyl-d14	2.86		mg/Kg wet	3.33		85.9	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213611 - SW-846 3546										
Blank (B213611-BLK1)										
Prepared: 09/29/18 Analyzed: 10/01/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							R-05
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.243		mg/Kg wet	0.200		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		106	30-150			
LCS (B213611-BS1)										
Prepared: 09/29/18 Analyzed: 10/02/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		105	40-140			
4,4'-DDE [2C]	0.093	0.0040	mg/Kg wet	0.100		93.1	40-140			R-05
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.100		109	40-140			
4,4'-DDT [2C]	0.091	0.0040	mg/Kg wet	0.100		90.5	40-140			
Endosulfan I	0.095	0.0050	mg/Kg wet	0.100		94.9	40-140			
Endosulfan I [2C]	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
Endosulfan II	0.099	0.0080	mg/Kg wet	0.100		99.5	40-140			
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		84.0	30-150			
LCS Dup (B213611-BSD1)										
Prepared: 09/29/18 Analyzed: 10/02/18										
4,4'-DDE	0.14	0.0040	mg/Kg wet	0.100		139	40-140	27.9	30	
4,4'-DDE [2C]	0.13	0.0040	mg/Kg wet	0.100		128	40-140	31.8 *	30	R-05
4,4'-DDT	0.15	0.0040	mg/Kg wet	0.100		146 *	40-140	29.8	30	L-07
4,4'-DDT [2C]	0.12	0.0040	mg/Kg wet	0.100		121	40-140	28.6	30	
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		99.7	40-140	4.92	30	
Endosulfan I [2C]	0.091	0.0050	mg/Kg wet	0.100		91.0	40-140	4.98	30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.100		114	40-140	13.6	30	
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		105	40-140	13.8	30	
Surrogate: Decachlorobiphenyl	0.283		mg/Kg wet	0.200		141	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.273		mg/Kg wet	0.200		136	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.208		mg/Kg wet	0.200		104	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S027850-PEM1 **Analyzed:** 10/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.67
Endrin [1] 2.39

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.17
Endrin [2] 2.71

BREAKDOWN REPORT

Lab Sample ID: S027850-PEM2 **Analyzed:** 10/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.23
Endrin [1] 2.32

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.69
Endrin [2] 2.55

BREAKDOWN REPORT

Lab Sample ID: S027850-PEM3 **Analyzed:** 10/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.53
Endrin [1] 2.73

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BREAKDOWN REPORT

Lab Sample ID: S027850-PEM3 **Analyzed:** 10/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.31
Endrin [2] 2.92

BREAKDOWN REPORT

Lab Sample ID: S027850-PEM4 **Analyzed:** 10/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.93
Endrin [1] 2.51

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.78
Endrin [2] 2.58

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8081B

Lab Sample ID: B213611-BS1 Date(s) Analyzed 10/02/2018 10/02/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.712	6.682	6.742	0.10	
	2	6.565	6.536	6.596	0.093	16.7
4,4'-DDT	1	7.359	7.329	7.389	0.11	
	2	7.214	7.185	7.245	0.091	18.9
Endosulfan I	1	6.750	6.720	6.780	0.095	
	2	6.470	6.440	6.500	0.087	8.8
Endosulfan II	1	7.259	7.229	7.289	0.099	
	2	7.033	7.004	7.064	0.091	9.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B213611-BSD1 Date(s) Analyzed 10/02/2018 10/02/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.712	6.682	6.742	0.14	
	2	6.565	6.536	6.596	0.13	7.4
4,4'-DDT	1	7.359	7.329	7.389	0.15	
	2	7.214	7.185	7.245	0.12	22.2
Endosulfan I	1	6.750	6.720	6.780	0.10	
	2	6.469	6.440	6.500	0.091	9.4
Endosulfan II	1	7.258	7.229	7.289	0.11	
	2	7.033	7.004	7.064	0.10	9.5

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

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 East Longmeadow, MA 01028

Page ____ of ____

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ellen Beart

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-27-Sidewall	9/27/2018 17:42	9/27/2018 17:30	X	X	S	L
2	OU2-SED-28-Bottom	9/27/2018 17:57	9/27/2018 18:03	X	X	S	L
3	OU2-SED-83-Sidewall	9/27/2018 16:30	9/27/2018 16:35	X	X	S	L
4	OU2-SED-84-Sidewall	9/27/2018 16:40	9/27/2018 16:45	X	X	S	L
5	OU2-SED-87-Sidewall	9/27/2018 17:12	9/27/2018 17:20	X	X	S	L
6	OU2-SED-90-Sidewall	9/27/2018 17:25	9/27/2018 17:40	X	X	S	L
7	OU2-SED-91-Sidewall	9/27/2018 17:46	9/27/2018 17:50	X	X	S	L
8	OU2-SED-93-Sidewall	9/27/2018 18:05	9/27/2018 18:10	X	X	S	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

Requested Turnaround Time: 7-Day 10-Day
 Due Date: _____
 Rush-Approval Required: 3-Day 4-Day
 Data Delivery: EXCEL PDF
 Other: _____
 CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #: _____

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge Part 360 GW (Landfill) NY CP-51
 NY Restricted Use NY Regulatory EDD
 NY Unrestricted Use NY Regs Hits-Only EDD
 NY Part 375

Enhanced Data Package

NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity

Government Municipality WRTA
 Federal 21 J School
 City Brownfield MBTA

Other

MWRRA Chromatogram
 AHA-LAP, LLC

Relinquished by: (signature) *[Signature]* Date/Time: 9/28 15:00
Received by: (signature) *[Signature]* Date/Time: 9/26 15:059
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____

ANALYSIS REQUESTED

Matrix Codes:	Preservation Codes:	Container Codes:
GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	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)	A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)

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

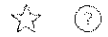




Sign in

TRACK ANOTHER SHIPMENT

813219360937



Delivered
Saturday 9/29/2018 at 10:59 am



DELIVERED

Signed for by: M.PAUL

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US

Travel History	Multiple-piece Shipment	Shipment Facts
9/29/2018 - Saturday	10:59 am	Delivered MA
Expand History		
9/28/2018 - Friday	4:32 pm	Picked up PLATTSBURGH, NY

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English



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 9/29/18 Time 1059

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 # 557 Actual Temp - 2.9
 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? RT Who was notified? Mike M
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>8</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>16</u>	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:

September 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0177

Enclosed are results of analyses for samples received by the laboratory on September 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0177

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-13-Bottom	18I0177-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-71-Sidewall	18I0177-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-72-Sidewall	18I0177-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Ethylbenzene	ND	0.0012	0.00049	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Isopropylbenzene (Cumene)	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
1,2,4-Trimethylbenzene	ND	0.0012	0.00049	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
m+p Xylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
o-Xylene	ND	0.0012	0.00043	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF
Xylenes (total)	ND	0.0037		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:50	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.8	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	104	70-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:15	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		66.4	30-130						9/7/18 11:15	
2-Fluorobiphenyl		70.9	30-130						9/7/18 11:15	
p-Terphenyl-d14		86.1	30-130						9/7/18 11:15	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 1810177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Endosulfan I [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Endosulfan II [1]	ND	0.0092	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:03	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.7		30-150						9/6/18 23:03	
Decachlorobiphenyl [2]	88.3		30-150						9/6/18 23:03	
Tetrachloro-m-xylene [1]	69.5		30-150						9/6/18 23:03	
Tetrachloro-m-xylene [2]	73.5		30-150						9/6/18 23:03	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18I0177

Date Received: 9/6/2018

Field Sample #: OU2-SED-13-Bottom

Sample ID: 18I0177-01

Start Date/Time: 9/5/2018 11:41:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:43:00AM

Conventional 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	9/6/18	9/7/18 10:41	JFC

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
Ethylbenzene	0.00075	0.0014	0.00058	mg/Kg dry	1	J	SW-846 8260C	9/6/18	9/6/18 13:53	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
1,2,4-Trimethylbenzene	0.00083	0.0014	0.00058	mg/Kg dry	1	J	SW-846 8260C	9/6/18	9/6/18 13:53	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 13:53	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.4	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	105	70-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:37	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.1	30-130						9/7/18 11:37	
2-Fluorobiphenyl		68.4	30-130						9/7/18 11:37	
p-Terphenyl-d14		79.5	30-130						9/7/18 11:37	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Endosulfan I [1]	ND	0.0064	0.00051	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:30	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.8		30-150						9/6/18 23:30	
Decachlorobiphenyl [2]	86.4		30-150						9/6/18 23:30	
Tetrachloro-m-xylene [1]	64.2		30-150						9/6/18 23:30	
Tetrachloro-m-xylene [2]	66.6		30-150						9/6/18 23:30	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-71-Sidewall

Sample ID: 1810177-02

Start Date/Time: 9/5/2018 11:44:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:49:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.7		% Wt	1		SM 2540G	9/6/18	9/7/18 10:41	JFC

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	9/6/18	9/6/18 14:21	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.9	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	106	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/6/18	9/7/18 11:59	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		60.1	30-130						9/7/18 11:59	
2-Fluorobiphenyl		65.6	30-130						9/7/18 11:59	
p-Terphenyl-d14		78.8	30-130						9/7/18 11:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	9/6/18	9/6/18 23:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	87.4		30-150						9/6/18 23:57	
Decachlorobiphenyl [2]	83.1		30-150						9/6/18 23:57	
Tetrachloro-m-xylene [1]	72.5		30-150						9/6/18 23:57	
Tetrachloro-m-xylene [2]	77.8		30-150						9/6/18 23:57	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810177

Date Received: 9/6/2018

Field Sample #: OU2-SED-72-Sidewall

Sample ID: 1810177-03

Start Date/Time: 9/5/2018 11:50:00AM

Sample Matrix: Soil

Stop Date/Time: 9/5/2018 11:55:00AM

Conventional 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	9/6/18	9/7/18 10:41	JFC

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0177-01 [OU2-SED-13-Bottom]	B211894	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211894	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211894	09/06/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211828	10.1	10.0	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211828	10.0	10.0	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211828	10.0	10.0	09/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211898	9.43	10.0	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211898	8.83	10.0	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211898	7.84	10.0	09/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0177-01 [OU2-SED-13-Bottom]	B211830	30.1	1.00	09/06/18
18I0177-02 [OU2-SED-71-Sidewall]	B211830	30.0	1.00	09/06/18
18I0177-03 [OU2-SED-72-Sidewall]	B211830	30.0	1.00	09/06/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211898 - SW-846 5035										
Blank (B211898-BLK1)										
Prepared & Analyzed: 09/06/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0531		mg/Kg wet	0.0500		106	70-130			
LCS (B211898-BS1)										
Prepared & Analyzed: 09/06/18										
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Isopropylbenzene (Cumene)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B211898-BSD1)										
Prepared & Analyzed: 09/06/18										
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	0.514	25	
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.00	25	
Isopropylbenzene (Cumene)	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.993	25	
Toluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	9.66	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	1.48	25	
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.2	70-130	0.403	25	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	0.523	25	
Surrogate: 1,2-Dichloroethane-d4	0.0477		mg/Kg wet	0.0500		95.4	70-130			
Surrogate: Toluene-d8	0.0470		mg/Kg wet	0.0500		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211830 - SW-846 3546										
Blank (B211830-BLK1)										
Prepared: 09/06/18 Analyzed: 09/07/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.32		70.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.32		76.4	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.32		85.7	30-130			
LCS (B211830-BS1)										
Prepared: 09/06/18 Analyzed: 09/07/18										
Acenaphthene	1.13	0.17	mg/Kg wet	1.65		68.3	40-140			
Acenaphthylene	1.13	0.17	mg/Kg wet	1.65		68.2	40-140			
Anthracene	1.17	0.17	mg/Kg wet	1.65		70.6	40-140			
Benzo(a)anthracene	1.18	0.17	mg/Kg wet	1.65		71.2	40-140			
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.65		73.7	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.65		68.2	40-140			
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.65		77.6	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.65		68.7	40-140			
Chrysene	1.13	0.17	mg/Kg wet	1.65		68.4	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.65		80.5	40-140			
Fluoranthene	1.19	0.17	mg/Kg wet	1.65		71.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.65		70.0	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.65		78.1	40-140			
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.65		73.0	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.65		67.1	40-140			
Phenanthrene	1.15	0.17	mg/Kg wet	1.65		69.6	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.65		69.0	40-140			
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.30		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.30		77.8	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.30		85.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211830 - SW-846 3546										
LCS Dup (B211830-BSD1)										
					Prepared: 09/06/18 Analyzed: 09/07/18					
Acenaphthene	1.15	0.17	mg/Kg wet	1.66		69.2	40-140	1.67	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.66		68.9	40-140	1.35	30	
Anthracene	1.19	0.17	mg/Kg wet	1.66		72.1	40-140	2.38	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.66		72.4	40-140	1.97	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.66		75.4	40-140	2.67	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.66		70.0	40-140	2.88	30	
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.66		78.5	40-140	1.51	30	
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.66		70.7	40-140	3.20	30	
Chrysene	1.16	0.17	mg/Kg wet	1.66		69.8	40-140	2.39	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.66		81.0	40-140	0.851	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.66		75.2	40-140	4.73	30	
Fluorene	1.18	0.17	mg/Kg wet	1.66		71.3	40-140	2.06	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.66		78.6	40-140	0.994	30	
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.66		74.1	40-140	1.83	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.66		67.7	40-140	1.25	30	
Phenanthrene	1.18	0.17	mg/Kg wet	1.66		71.0	40-140	2.35	30	
Pyrene	1.15	0.17	mg/Kg wet	1.66		69.5	40-140	1.05	30	
Surrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.31		73.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.31		77.4	30-130			
Surrogate: p-Terphenyl-d14	2.83		mg/Kg wet	3.31		85.5	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211828 - SW-846 3546										
Blank (B211828-BLK1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	ND	0.0038	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0038	mg/Kg wet							
4,4'-DDT	ND	0.0038	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0038	mg/Kg wet							
Endosulfan I	ND	0.0048	mg/Kg wet							
Endosulfan I [2C]	ND	0.0048	mg/Kg wet							
Endosulfan II	ND	0.0077	mg/Kg wet							
Endosulfan II [2C]	ND	0.0077	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.123		mg/Kg wet	0.192		63.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.116		mg/Kg wet	0.192		60.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.115		mg/Kg wet	0.192		60.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.120		mg/Kg wet	0.192		62.4	30-150			
LCS (B211828-BS1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.0990		102	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.0990		91.3	40-140			
Endosulfan I	0.089	0.0050	mg/Kg wet	0.0990		90.1	40-140			
Endosulfan I [2C]	0.090	0.0050	mg/Kg wet	0.0990		90.8	40-140			
Endosulfan II	0.086	0.0079	mg/Kg wet	0.0990		87.3	40-140			
Endosulfan II [2C]	0.086	0.0079	mg/Kg wet	0.0990		87.3	40-140			
Surrogate: Decachlorobiphenyl	0.193		mg/Kg wet	0.198		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.198		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.198		91.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.198		97.9	30-150			
LCS Dup (B211828-BSD1)										
Prepared & Analyzed: 09/06/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.0990		106	40-140	3.59	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.0990		106	40-140	3.74	30	
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.0990		107	40-140	4.40	30	
4,4'-DDT [2C]	0.096	0.0040	mg/Kg wet	0.0990		96.5	40-140	5.54	30	
Endosulfan I	0.094	0.0050	mg/Kg wet	0.0990		94.5	40-140	4.83	30	
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.0990		95.0	40-140	4.52	30	
Endosulfan II	0.092	0.0079	mg/Kg wet	0.0990		92.8	40-140	6.16	30	
Endosulfan II [2C]	0.092	0.0079	mg/Kg wet	0.0990		92.9	40-140	6.23	30	
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.198		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.198		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.198		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.198		101	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211894 - % Solids

Duplicate (B211894-DUP1)

Source: 1810177-02

Prepared: 09/06/18 Analyzed: 09/07/18

% Solids	78.7		% Wt		78.7			0.0471	20	
----------	------	--	------	--	------	--	--	--------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S027065-PEM1 **Analyzed:** 09/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.52
Endrin [1] 1.59

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.52
Endrin [2] 1.63

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM2 **Analyzed:** 09/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.62
Endrin [1] 1.94

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.57
Endrin [2] 2.00

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM3 **Analyzed:** 09/07/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.79
Endrin [1] 1.69

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BREAKDOWN REPORT

Lab Sample ID: S027065-PEM3 Analyzed: 09/07/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.74
Endrin [2]	1.73

BREAKDOWN REPORT

Lab Sample ID: S027065-PEM4 Analyzed: 09/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.11
Endrin [1]	1.58

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.05
Endrin [2]	1.62

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211828-BS1 Date(s) Analyzed: 09/06/2018 09/06/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.770	6.741	6.801	0.10	
	2	6.860	6.830	6.890	0.10	0.0
4,4'-DDT	1	7.419	7.390	7.450	0.10	
	2	7.531	7.502	7.562	0.090	10.5
Endosulfan I	1	6.810	6.781	6.841	0.089	
	2	6.771	6.741	6.801	0.090	1.1
Endosulfan II	1	7.318	7.290	7.350	0.086	
	2	7.356	7.327	7.387	0.086	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B211828-BSD1 Date(s) Analyzed: 09/06/2018 09/06/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.771	6.741	6.801	0.10	
	2	6.860	6.830	6.890	0.11	0.0
4,4'-DDT	1	7.419	7.390	7.450	0.11	
	2	7.532	7.502	7.562	0.096	13.6
Endosulfan I	1	6.811	6.781	6.841	0.094	
	2	6.771	6.741	6.801	0.094	0.0
Endosulfan II	1	7.319	7.290	7.350	0.092	
	2	7.357	7.327	7.387	0.092	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810177



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number: Matthew Warren

Con-Test Quote Name/Number: Con-Test Quote Name/Number: Matthew Warren

Invoice Recipient: miw@land-remediation.com
Sampled By: Ethan Bradt

Requested: 7-Day 10-Day Rush-Approval Required: 3-Day 4-Day EXCEL Data Delivery

Format: PDF EXCEL Other: CAT B - Equis

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: JKL@land-remediation.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)
39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

# of Containers	1
Preservation Code	-
Container Code	G
Dissolved Metals Samples	
<input type="checkbox"/> Field Filtered	
<input type="checkbox"/> Lab to Filter	
Orthophosphate Samples	
<input type="checkbox"/> Field Filtered	
<input type="checkbox"/> Lab to Filter	
Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	
Preservation Codes: I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)	
Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)	

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
O1	OU2-SED-13-Bottom	9/5/2018 11:41	9/5/2018 11:43		X	S	L
O2	OU2-SED-71-Sidewall	9/5/2018 11:44	9/5/2018 11:49		X	S	L
O3	OU2-SED-72-Sidewall	9/5/2018 11:50	9/5/2018 11:55		X	S	L

Comments: LRI Personnel - Attached

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	
<input type="checkbox"/> AWQ STDS	<input type="checkbox"/> NY TOGS
<input type="checkbox"/> NYC Sewer Discharge	<input type="checkbox"/> NY CP-51
<input type="checkbox"/> Part 360 GW (Landfill)	<input type="checkbox"/> NY Restricted Use
<input type="checkbox"/> NY Unrestricted Use	<input type="checkbox"/> NY Part 375
Enhanced Data Package	
<input type="checkbox"/> NYSDEC EQUIS EDD	<input type="checkbox"/> NY Regs Hits-Only EDD
<input type="checkbox"/> EQUIS (Standard) EDD	
<input type="checkbox"/> NY Regulatory EDD	

Date/Time: 9/5/15:00
Date/Time: 9/18/18 9:30

Relinquished by: (signature) [Signature]
Received by: (signature) [Signature]
Relinquished by: (signature) [Signature]

Date/Time: _____
Date/Time: _____
Date/Time: _____

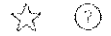
<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Municipality	<input type="checkbox"/> MWRA	<input type="checkbox"/> WRTA	Other: <input type="checkbox"/> Chromatogram
<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J	<input type="checkbox"/> School	<input type="checkbox"/> MBTA	<input type="checkbox"/> ALPHA-LAP, LLC
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield			



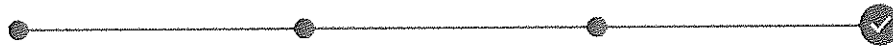
Sign In

TRACK ANOTHER SHIPMENT

813219360992



Delivered
Thursday 9/06/2018 at 9:36 am



DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SUM US
TO
EAST LONGMEADOW, MA US

Travel History

Shipment Facts

9/06/2018 - Thursday

9:36 am

Delivered
MA

Expand History

9/05/2018 - Wednesday

4:17 pm

Picked up
PLATTSBURGH, NY

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English

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PLF Date 9/16/18 Time 936

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 - 2.5
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Devin

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>3</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>6</u>	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:

September 17, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0622

Enclosed are results of analyses for samples received by the laboratory on September 14, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810622

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-3A-Bottom	1810622-01	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-4A-Bottom	1810622-02	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-53A-Sidewall	1810622-03	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-SED-62A-Sidewall	1810622-04	Soil		SM 2540G	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:06	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		98.4	70-130						9/15/18 9:06	
Toluene-d8		100	70-130						9/15/18 9:06	
4-Bromofluorobenzene		99.9	70-130						9/15/18 9:06	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:01	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.4	30-130						9/15/18 12:01	
2-Fluorobiphenyl		60.1	30-130						9/15/18 12:01	
p-Terphenyl-d14		73.6	30-130						9/15/18 12:01	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 12:55	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.7		30-150						9/17/18 12:55	
Decachlorobiphenyl [2]	77.6		30-150						9/17/18 12:55	
Tetrachloro-m-xylene [1]	84.6		30-150						9/17/18 12:55	
Tetrachloro-m-xylene [2]	84.6		30-150						9/17/18 12:55	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-3A-Bottom

Sample ID: 1810622-01

Start Date/Time: 9/13/2018 1:49:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:55:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/16/18	9/16/18 16:10	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Ethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Toluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
1,2,4-Trimethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Xylenes (total)	ND	0.0071		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:33	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130						9/15/18 9:33	
Toluene-d8		101	70-130						9/15/18 9:33	
4-Bromofluorobenzene		101	70-130						9/15/18 9:33	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:24	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		63.4	30-130						9/15/18 12:24	
2-Fluorobiphenyl		66.3	30-130						9/15/18 12:24	
p-Terphenyl-d14		66.1	30-130						9/15/18 12:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:09	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.8		30-150						9/17/18 13:09	
Decachlorobiphenyl [2]	68.3		30-150						9/17/18 13:09	
Tetrachloro-m-xylene [1]	66.9		30-150						9/17/18 13:09	
Tetrachloro-m-xylene [2]	66.1		30-150						9/17/18 13:09	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-4A-Bottom

Sample ID: 1810622-02

Start Date/Time: 9/13/2018 2:27:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 2:36:00PM

Conventional 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	9/16/18	9/16/18 16:11	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
1,2,4-Trimethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	9/15/18	9/15/18 9:59	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130					9/15/18	9:59	
Toluene-d8		100	70-130					9/15/18	9:59	
4-Bromofluorobenzene		100	70-130					9/15/18	9:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.14	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Anthracene	0.16	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(a)anthracene	0.15	0.20	0.052	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(a)pyrene	0.16	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(b)fluoranthene	0.11	0.20	0.055	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Chrysene	0.15	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Fluoranthene	0.33	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Fluorene	0.068	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
2-Methylnaphthalene	0.14	0.20	0.068	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Naphthalene	0.12	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Phenanthrene	0.52	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Pyrene	0.85	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 12:48	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	61.7		30-130				9/15/18 12:48			
2-Fluorobiphenyl	67.7		30-130				9/15/18 12:48			
p-Terphenyl-d14	72.6		30-130				9/15/18 12:48			

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.6		30-150						9/17/18 13:24	
Decachlorobiphenyl [2]	72.8		30-150						9/17/18 13:24	
Tetrachloro-m-xylene [1]	77.4		30-150						9/17/18 13:24	
Tetrachloro-m-xylene [2]	74.7		30-150						9/17/18 13:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-53A-Sidewall

Sample ID: 1810622-03

Start Date/Time: 9/13/2018 1:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/13/2018 1:17:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	9/16/18	9/16/18 16:11	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/15/18	9/17/18 8:12	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		97.8	70-130						9/17/18 8:12	
Toluene-d8		99.5	70-130						9/17/18 8:12	
4-Bromofluorobenzene		103	70-130						9/17/18 8:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.066	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Acenaphthylene	ND	0.22	0.074	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(g,h,i)perylene	ND	0.22	0.097	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/14/18	9/15/18 13:12	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.7	30-130						9/15/18 13:12	
2-Fluorobiphenyl		65.0	30-130						9/15/18 13:12	
p-Terphenyl-d14		83.7	30-130						9/15/18 13:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0052	0.00039	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
4,4'-DDT [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Endosulfan I [1]	ND	0.0065	0.00052	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Endosulfan II [1]	ND	0.010	0.00039	mg/Kg dry	1		SW-846 8081B	9/14/18	9/17/18 13:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.7		30-150						9/17/18 13:45	
Decachlorobiphenyl [2]	53.1		30-150						9/17/18 13:45	
Tetrachloro-m-xylene [1]	51.6		30-150						9/17/18 13:45	
Tetrachloro-m-xylene [2]	50.5		30-150						9/17/18 13:45	

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Project Location: Saranac Lake

Sample Description:

Work Order: 1810622

Date Received: 9/14/2018

Field Sample #: OU2-SED-62A-Sidewall

Sample ID: 1810622-04

Start Date/Time: 9/14/2018 9:05:00AM

Sample Matrix: Soil

Stop Date/Time: 9/14/2018 9:10:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	9/16/18	9/16/18 16:11	KMG

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212584	09/16/18
18I0622-02 [OU2-SED-4A-Bottom]	B212584	09/16/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212584	09/16/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212584	09/16/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212471	10.1	10.0	09/14/18
18I0622-02 [OU2-SED-4A-Bottom]	B212471	10.5	10.0	09/14/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212471	10.1	10.0	09/14/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212471	10.0	10.0	09/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212572	8.97	10.0	09/15/18
18I0622-02 [OU2-SED-4A-Bottom]	B212572	5.07	10.0	09/15/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212572	6.28	10.0	09/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-04 [OU2-SED-62A-Sidewall]	B212589	9.25	10.0	09/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0622-01 [OU2-SED-3A-Bottom]	B212473	30.3	1.00	09/14/18
18I0622-02 [OU2-SED-4A-Bottom]	B212473	30.1	1.00	09/14/18
18I0622-03 [OU2-SED-53A-Sidewall]	B212473	30.0	1.00	09/14/18
18I0622-04 [OU2-SED-62A-Sidewall]	B212473	30.4	1.00	09/14/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212572 - SW-846 5035										
Blank (B212572-BLK1)										
Prepared & Analyzed: 09/15/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0540		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			
LCS (B212572-BS1)										
Prepared & Analyzed: 09/15/18										
Benzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Isopropylbenzene (Cumene)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2,4-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B212572-BSD1)										
Prepared & Analyzed: 09/15/18										
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	2.87	25	
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.02	25	
Isopropylbenzene (Cumene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.62	25	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.85	25	
1,2,4-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.40	25	
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130	0.134	25	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.34	25	
Surrogate: 1,2-Dichloroethane-d4	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Batch B212589 - SW-846 5035										
Blank (B212589-BLK1)										
Prepared & Analyzed: 09/17/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212589 - SW-846 5035										
LCS (B212589-BS1)										
Prepared & Analyzed: 09/17/18										
Benzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
m+p Xylene	0.0395	0.0040	mg/Kg wet	0.0400		98.8	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0429		mg/Kg wet	0.0500		85.9	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			
LCS Dup (B212589-BSD1)										
Prepared & Analyzed: 09/17/18										
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	7.27	25	
Ethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.791	25	
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.44	25	
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	12.3	25	
1,2,4-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	3.78	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.8	70-130	2.15	25	
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	3.81	25	
Surrogate: 1,2-Dichloroethane-d4	0.0526		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212473 - SW-846 3546										
Blank (B212473-BLK1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.54		mg/Kg wet	3.33		76.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.85		mg/Kg wet	3.33		85.5	30-130			
Surrogate: p-Terphenyl-d14	3.15		mg/Kg wet	3.33		94.6	30-130			
LCS (B212473-BS1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Chrysene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		83.7	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140			
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.33		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		79.0	30-130			
Surrogate: p-Terphenyl-d14	3.02		mg/Kg wet	3.33		90.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212473 - SW-846 3546										
LCS Dup (B212473-BSD1)										
Prepared & Analyzed: 09/14/18										
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	1.57	30	
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140	0.0295	30	
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140	1.58	30	
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	1.59	30	
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	0.962	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	1.46	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	1.16	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	0.663	30	
Chrysene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.427	30	
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.67		82.5	40-140	1.44	30	
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	0.711	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.0848	30	
Indeno(1,2,3-cd)pyrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	0.510	30	
2-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	0.0540	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	2.68	30	
Phenanthrene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	0.624	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	2.04	30	
Surrogate: Nitrobenzene-d5	2.30		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	3.01		mg/Kg wet	3.33		90.3	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212471 - SW-846 3546										
Blank (B212471-BLK1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		89.8	30-150			
LCS (B212471-BS1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDE [2C]	0.098	0.0040	mg/Kg wet	0.100		98.4	40-140			
4,4'-DDT	0.093	0.0040	mg/Kg wet	0.100		93.0	40-140			
4,4'-DDT [2C]	0.083	0.0040	mg/Kg wet	0.100		83.2	40-140			
Endosulfan I	0.098	0.0050	mg/Kg wet	0.100		97.7	40-140			
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.100		93.6	40-140			
Endosulfan II	0.098	0.0080	mg/Kg wet	0.100		97.5	40-140			
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		93.1	40-140			
Surrogate: Decachlorobiphenyl	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.173		mg/Kg wet	0.200		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			
LCS Dup (B212471-BSD1)										
Prepared: 09/14/18 Analyzed: 09/17/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		104	40-140	0.832	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		99.7	40-140	1.33	30	
4,4'-DDT	0.092	0.0040	mg/Kg wet	0.100		91.8	40-140	1.28	30	
4,4'-DDT [2C]	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	1.45	30	
Endosulfan I	0.098	0.0050	mg/Kg wet	0.100		97.7	40-140	0.00717	30	
Endosulfan I [2C]	0.093	0.0050	mg/Kg wet	0.100		93.1	40-140	0.560	30	
Endosulfan II	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	0.114	30	
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		92.6	40-140	0.585	30	
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		89.8	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S027340-PEM1 **Analyzed:** 09/17/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.95
Endrin [1]	4.93

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.84
Endrin [2]	4.94

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212471-BS1 Date(s) Analyzed 09/17/2018 09/17/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.754	6.724	6.784	0.10	
	2	6.849	6.818	6.878	0.098	2.0
4,4'-DDT	1	7.400	7.369	7.429	0.093	
	2	7.519	7.489	7.549	0.083	11.4
Endosulfan I	1	6.792	6.762	6.822	0.098	
	2	6.760	6.729	6.789	0.094	4.2
Endosulfan II	1	7.299	7.269	7.329	0.098	
	2	7.344	7.314	7.374	0.093	5.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B212471-BSD1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.754	6.724	6.784	0.10	
	2	6.849	6.818	6.878	0.10	0.0
4,4'-DDT	1	7.400	7.369	7.429	0.092	
	2	7.519	7.489	7.549	0.082	11.5
Endosulfan I	1	6.792	6.762	6.822	0.098	
	2	6.760	6.729	6.789	0.093	5.2
Endosulfan II	1	7.299	7.269	7.329	0.097	
	2	7.344	7.314	7.374	0.093	4.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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East Longmeadow, MA 01028

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: **LAND remediation**
Address: 74 Hudson River Road Waterford, NY

Project Name: **NYSDEC Saranac Lake Gas Co.**
Project Location: **OU_2 Sed**

Project Number: **Matthew Warren**
Project Manager: **Matthew Warren**

Con-Test Quote Name/Number: **miw@land-remediation.com**
Invoice Recipient: **miw@land-remediation.com**

Sampled By: **Ethan Brandt**

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-3A-Bottom	9/13/2018 13:49	9/13/2018 13:55	X	S	L	L
2	OU2-SED-4A-Bottom	9/13/2018 14:02	9/13/2018 14:36	X	S	L	L
3	OU2-SED-53A-Sidewall	9/13/2018 13:08	9/13/2018 13:17	X	S	L	L
4	OU2-SED-62A-Sidewall	9/14/2018 9:05	9/14/2018 9:10	X	S	L	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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

Requested Turnaround Time: 7-Day 10-Day

Due Date: Rush-Approval Required

1-Day 3-Day 2-Day 4-Day

Data Delivery: EXCEL

Format: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: **miw@land-remediation.com**

Fax To #: **8270 PAH**

ANALYSIS REQUESTED

8081* 8260 Standard*

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) *[Signature]* Date/Time: 9/14 9:25
Received by: (signature) *[Signature]* Date/Time: 9/14-18 9:25A
Relinquished by: (signature) *[Signature]* Date/Time: 9/14-18 12:00P
Received by: (signature) *[Signature]* Date/Time: 9/14/18 12:00P
Relinquished by: (signature) *[Signature]* Date/Time: 9/14/18 2:51
Received by: (signature) *[Signature]* Date/Time: 9-14-18 14:51

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Long Remediation

Received By ESD Date 9-14-18 Time 14:51

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 # 573 Actual Temp - 5.5
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? 12/1/18
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T MS/MSD? F
Is there Headspace where applicable? F Is splitting samples required? F
Proper Media/Containers Used? T On COC? F

Were trip blanks received? F Acid _____ Base _____
Do all samples have the proper pH? NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	4	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	2	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:

September 14, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0499

Enclosed are results of analyses for samples received by the laboratory on September 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810499

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-81-Sidewall	1810499-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-79-Sidewall	1810499-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-20- Bottom	1810499-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-77-Sidewall	1810499-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-18-Bottom	1810499-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-17-Bottom	1810499-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-80-Sidewall	1810499-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-82-Sidewall	1810499-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

1810499-02[OU2-SED-79-Sidewall], 1810499-03[OU2-SED-20- Bottom]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:59	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		91.2	70-130						9/13/18 12:59	
Toluene-d8		98.2	70-130						9/13/18 12:59	
4-Bromofluorobenzene		96.2	70-130						9/13/18 12:59	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		49.7	30-130						9/14/18 13:01	
2-Fluorobiphenyl		53.0	30-130						9/14/18 13:01	
p-Terphenyl-d14		59.7	30-130						9/14/18 13:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 18I0499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 11:12	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.2		30-150						9/14/18 11:12	
Decachlorobiphenyl [2]	68.1		30-150						9/14/18 11:12	
Tetrachloro-m-xylene [1]	67.6		30-150						9/14/18 11:12	
Tetrachloro-m-xylene [2]	63.3		30-150						9/14/18 11:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-81-Sidewall

Sample ID: 1810499-01

Start Date/Time: 9/11/2018 2:42:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:47:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF
Xylenes (total)	ND	0.0060		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.25	0.075	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Acenaphthylene	ND	0.25	0.084	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Anthracene	ND	0.25	0.072	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(a)anthracene	ND	0.25	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(a)pyrene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(b)fluoranthene	ND	0.25	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Benzo(k)fluoranthene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Chrysene	ND	0.25	0.078	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Fluoranthene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Fluorene	ND	0.25	0.081	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
2-Methylnaphthalene	ND	0.25	0.087	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Phenanthrene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Pyrene	0.088	0.25	0.083	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 13:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		39.9	30-130						9/14/18 13:30	
2-Fluorobiphenyl		41.6	30-130						9/14/18 13:30	
p-Terphenyl-d14		42.3	30-130						9/14/18 13:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.030	0.0022	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
4,4'-DDT [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Endosulfan I [1]	ND	0.037	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Endosulfan II [1]	ND	0.059	0.0022	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.0		30-150				9/14/18 11:37			
Decachlorobiphenyl [2]	74.2		30-150				9/14/18 11:37			
Tetrachloro-m-xylene [1]	76.4		30-150				9/14/18 11:37			
Tetrachloro-m-xylene [2]	72.4		30-150				9/14/18 11:37			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-79-Sidewall

Sample ID: 1810499-02

Start Date/Time: 9/11/2018 2:29:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:35:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.5		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Ethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Toluene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 13:55	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					9/13/18	13:55	
Toluene-d8		101	70-130					9/13/18	13:55	
4-Bromofluorobenzene		101	70-130					9/13/18	13:55	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.26	0.077	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Acenaphthylene	ND	0.26	0.086	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Anthracene	ND	0.26	0.074	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(a)anthracene	ND	0.26	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(a)pyrene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(b)fluoranthene	ND	0.26	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(g,h,i)perylene	ND	0.26	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Benzo(k)fluoranthene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Chrysene	ND	0.26	0.080	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Dibenz(a,h)anthracene	ND	0.26	0.16	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Fluoranthene	ND	0.26	0.085	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Fluorene	ND	0.26	0.083	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Indeno(1,2,3-cd)pyrene	ND	0.26	0.18	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
2-Methylnaphthalene	ND	0.26	0.089	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Naphthalene	ND	0.26	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Phenanthrene	ND	0.26	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Pyrene	ND	0.26	0.085	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:00	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		44.6	30-130						9/14/18 14:00	
2-Fluorobiphenyl		47.3	30-130						9/14/18 14:00	
p-Terphenyl-d14		48.0	30-130						9/14/18 14:00	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.030	0.0023	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
4,4'-DDT [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Endosulfan I [1]	ND	0.038	0.0030	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Endosulfan II [1]	ND	0.061	0.0023	mg/Kg dry	5		SW-846 8081B	9/13/18	9/14/18 11:59	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.7		30-150				9/14/18 11:59			
Decachlorobiphenyl [2]	63.0		30-150				9/14/18 11:59			
Tetrachloro-m-xylene [1]	67.1		30-150				9/14/18 11:59			
Tetrachloro-m-xylene [2]	65.1		30-150				9/14/18 11:59			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-20- Bottom

Sample ID: 1810499-03

Start Date/Time: 9/11/2018 2:36:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:40:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.8		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Toluene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:22	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		102	70-130					9/13/18	14:22	
Toluene-d8		99.9	70-130					9/13/18	14:22	
4-Bromofluorobenzene		113	70-130					9/13/18	14:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 18I0499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 14:30	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.8	30-130						9/14/18 14:30	
2-Fluorobiphenyl		60.1	30-130						9/14/18 14:30	
p-Terphenyl-d14		69.0	30-130						9/14/18 14:30	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:21	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.4		30-150						9/14/18 12:21	
Decachlorobiphenyl [2]	68.8		30-150						9/14/18 12:21	
Tetrachloro-m-xylene [1]	67.8		30-150						9/14/18 12:21	
Tetrachloro-m-xylene [2]	65.7		30-150						9/14/18 12:21	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-77-Sidewall

Sample ID: 1810499-04

Start Date/Time: 9/11/2018 2:23:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:28:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
Ethylbenzene	0.0022	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
1,2,4-Trimethylbenzene	0.0025	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:45	MF
o-Xylene	0.00090	0.0014	0.00048	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 15:45	MF
Xylenes (total)	0.00090	0.0041		mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 15:45	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		90.5	70-130					9/13/18	15:45	
Toluene-d8		96.9	70-130					9/13/18	15:45	
4-Bromofluorobenzene		101	70-130					9/13/18	15:45	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Acenaphthylene	0.083	0.20	0.068	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Naphthalene	0.12	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Phenanthrene	0.13	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 15:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.4	30-130						9/14/18 15:01	
2-Fluorobiphenyl		58.2	30-130						9/14/18 15:01	
p-Terphenyl-d14		67.0	30-130						9/14/18 15:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 12:43	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.5		30-150						9/14/18 12:43	
Decachlorobiphenyl [2]	62.9		30-150						9/14/18 12:43	
Tetrachloro-m-xylene [1]	63.8		30-150						9/14/18 12:43	
Tetrachloro-m-xylene [2]	58.3		30-150						9/14/18 12:43	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-18-Bottom

Sample ID: 1810499-05

Start Date/Time: 9/11/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:22:00PM

Conventional 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	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Ethylbenzene	0.0033	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Isopropylbenzene (Cumene)	0.00075	0.0013	0.00047	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
Toluene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
1,2,4-Trimethylbenzene	0.0043	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
m+p Xylene	0.0018	0.0027	0.0011	mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
o-Xylene	0.0014	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 16:12	MF
Xylenes (total)	0.0032	0.0040		mg/Kg dry	1	J	SW-846 8260C	9/13/18	9/13/18 16:12	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130						9/13/18 16:12	
Toluene-d8	101		70-130						9/13/18 16:12	
4-Bromofluorobenzene	104		70-130						9/13/18 16:12	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.17	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Fluorene	0.10	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
2-Methylnaphthalene	0.16	0.20	0.070	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Naphthalene	0.20	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Phenanthrene	0.29	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:34	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	48.6		30-130				9/14/18 12:34			
2-Fluorobiphenyl	53.2		30-130				9/14/18 12:34			
p-Terphenyl-d14	57.9		30-130				9/14/18 12:34			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 18I0499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 18I0499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:05	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	73.1		30-150						9/14/18 13:05	
Decachlorobiphenyl [2]	60.5		30-150						9/14/18 13:05	
Tetrachloro-m-xylene [1]	58.6		30-150						9/14/18 13:05	
Tetrachloro-m-xylene [2]	53.9		30-150						9/14/18 13:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-17-Bottom

Sample ID: 1810499-06

Start Date/Time: 9/11/2018 2:03:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:09:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Ethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Toluene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
o-Xylene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 14:51	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		124	70-130					9/13/18	14:51	
Toluene-d8		100	70-130					9/13/18	14:51	
4-Bromofluorobenzene		104	70-130					9/13/18	14:51	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.6	30-130						9/14/18 13:01	
2-Fluorobiphenyl		56.9	30-130						9/14/18 13:01	
p-Terphenyl-d14		64.4	30-130						9/14/18 13:01	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Endosulfan I [1]	ND	0.0062	0.00049	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:19	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	90.9		30-150						9/14/18 13:19	
Decachlorobiphenyl [2]	74.0		30-150						9/14/18 13:19	
Tetrachloro-m-xylene [1]	71.0		30-150						9/14/18 13:19	
Tetrachloro-m-xylene [2]	65.8		30-150						9/14/18 13:19	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-80-Sidewall

Sample ID: 1810499-07

Start Date/Time: 9/11/2018 1:43:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:47:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 15:18	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		103	70-130					9/13/18	15:18	
Toluene-d8		110	70-130					9/13/18	15:18	
4-Bromofluorobenzene		111	70-130					9/13/18	15:18	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 13:28	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.6	30-130						9/14/18 13:28	
2-Fluorobiphenyl		61.4	30-130						9/14/18 13:28	
p-Terphenyl-d14		63.8	30-130						9/14/18 13:28	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Endosulfan II [1]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 13:35	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.7		30-150				9/14/18 13:35			
Decachlorobiphenyl [2]	74.4		30-150				9/14/18 13:35			
Tetrachloro-m-xylene [1]	76.0		30-150				9/14/18 13:35			
Tetrachloro-m-xylene [2]	74.6		30-150				9/14/18 13:35			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810499

Date Received: 9/13/2018

Field Sample #: OU2-SED-82-Sidewall

Sample ID: 1810499-08

Start Date/Time: 9/11/2018 1:48:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 1:55:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	9/13/18	9/14/18 14:49	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212445	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212445	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212445	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212445	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212445	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212445	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212445	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212445	09/13/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212399	10.0	10.0	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212399	10.0	10.0	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212399	10.1	10.0	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212399	10.0	10.0	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212399	10.0	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212424	8.48	10.0	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212424	7.43	10.0	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212424	7.82	10.0	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212424	7.52	10.0	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212424	8.80	10.0	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212424	8.88	10.0	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212424	9.13	10.0	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212424	8.77	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0499-01 [OU2-SED-81-Sidewall]	B212411	30.2	1.00	09/13/18
18I0499-02 [OU2-SED-79-Sidewall]	B212411	30.1	1.00	09/13/18
18I0499-03 [OU2-SED-20- Bottom]	B212411	30.1	1.00	09/13/18
18I0499-04 [OU2-SED-77-Sidewall]	B212411	30.0	1.00	09/13/18
18I0499-05 [OU2-SED-18-Bottom]	B212411	30.1	1.00	09/13/18
18I0499-06 [OU2-SED-17-Bottom]	B212411	30.1	1.00	09/13/18
18I0499-07 [OU2-SED-80-Sidewall]	B212411	30.0	1.00	09/13/18
18I0499-08 [OU2-SED-82-Sidewall]	B212411	30.0	1.00	09/13/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212424 - SW-846 5035										
Blank (B212424-BLK1)										
Prepared & Analyzed: 09/13/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0454		mg/Kg wet	0.0500		90.9	70-130			
Surrogate: Toluene-d8	0.0473		mg/Kg wet	0.0500		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			
LCS (B212424-BS1)										
Prepared & Analyzed: 09/13/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Isopropylbenzene (Cumene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,2,4-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B212424-BSD1)										
Prepared & Analyzed: 09/13/18										
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	5.19	25	
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	3.16	25	
Isopropylbenzene (Cumene)	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.55	25	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.39	25	
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.04	25	
m+p Xylene	0.0428	0.0040	mg/Kg wet	0.0400		107	70-130	2.41	25	
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	3.51	25	
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212411 - SW-846 3546										
Blank (B212411-BLK1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.33		91.0	30-130			
LCS (B212411-BS1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(g,h,i)perylene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Fluorene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.5	30-130			
Surrogate: p-Terphenyl-d14	3.12		mg/Kg wet	3.33		93.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212411 - SW-846 3546										
LCS Dup (B212411-BSD1)										
					Prepared: 09/13/18 Analyzed: 09/14/18					
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	3.22	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	2.40	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	8.21	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.11	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140	7.19	30	
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	5.50	30	
Benzo(g,h,i)perylene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	9.42	30	
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	7.17	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	7.83	30	
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	8.64	30	
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	8.32	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	3.80	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	8.88	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	1.19	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	0.840	30	
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	7.42	30	
Pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	5.41	30	
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.1	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212399 - SW-846 3546										
Blank (B212399-BLK1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.146		mg/Kg wet	0.200		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		68.8	30-150			
LCS (B212399-BS1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140			
4,4'-DDE [2C]	0.084	0.0040	mg/Kg wet	0.100		84.1	40-140			
4,4'-DDT	0.081	0.0040	mg/Kg wet	0.100		80.6	40-140			
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		69.1	40-140			
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140			
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140			
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		83.5	40-140			
Endosulfan II [2C]	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		72.1	30-150			
LCS Dup (B212399-BSD1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
4,4'-DDE	0.085	0.0040	mg/Kg wet	0.100		84.6	40-140	1.85	30	
4,4'-DDE [2C]	0.083	0.0040	mg/Kg wet	0.100		83.1	40-140	1.20	30	
4,4'-DDT	0.080	0.0040	mg/Kg wet	0.100		80.4	40-140	0.232	30	
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		68.5	40-140	0.794	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	1.37	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.5	40-140	0.752	30	
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140	1.70	30	
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.7	40-140	1.72	30	
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.145		mg/Kg wet	0.200		72.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		69.9	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S027292-PEM1 Analyzed: 09/14/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.83
Endrin [1]	3.85

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.71
Endrin [2]	3.97

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212399-BS1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.756	6.725	6.785	0.086	
	2	6.850	6.820	6.880	0.084	2.4
4,4'-DDT	1	7.403	7.372	7.432	0.081	
	2	7.521	7.490	7.550	0.069	16.0
Endosulfan I	1	6.795	6.764	6.824	0.083	
	2	6.761	6.731	6.791	0.081	2.4
Endosulfan II	1	7.302	7.272	7.332	0.084	
	2	7.346	7.316	7.376	0.082	2.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B212399-BSD1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.756	6.725	6.785	0.085	
	2	6.849	6.820	6.880	0.083	2.4
4,4'-DDT	1	7.403	7.372	7.432	0.080	
	2	7.520	7.490	7.550	0.069	14.8
Endosulfan I	1	6.795	6.764	6.824	0.082	
	2	6.760	6.731	6.791	0.080	2.5
Endosulfan II	1	7.303	7.272	7.332	0.082	
	2	7.345	7.316	7.376	0.081	1.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810499
 http://www.contestlabs.com
 Doc # 380 Rev 1_03242017
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 East Longmeadow, MA 01028
 Page _____ of _____

Requested Turnaround Time
 7-Day 10-Day
 Due Date:
 Rush Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other:

CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OUZ-SED-81-Sidewall	9/11/2018 14:42	9/11/2018 14:47	X	S	L	L
2	OUZ-SED-79-Sidewall	9/11/2018 14:29	9/11/2018 14:35	X	S	L	L
3	OUZ-SED-20-Bottom	9/11/2018 14:26	9/11/2018 14:40	X	S	L	L
4	OUZ-SED-77-Sidewall	9/11/2018 14:23	9/11/2018 14:28	X	S	L	L
5	OUZ-SED-18-Bottom	9/11/2018 14:16	9/11/2018 14:22	X	S	L	L
6	OUZ-SED-17-Bottom	9/11/2018 14:03	9/11/2018 14:09	X	S	L	L
7	OUZ-SED-80-Sidewall	9/11/2018 13:43	9/11/2018 13:47	X	S	L	L
8	OUZ-SED-82-Sidewall	9/11/2018 13:48	9/11/2018 13:55	X	S	L	L

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, isopropylbenzene + Total Xylene
 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) *[Signature]* Date/Time: 9/12/18 15:00
 Received by: (signature) *[Signature]* 34 9/13/18 9:25
 Relinquished by: (signature)
 Received by: (signature)
 Relinquished by: (signature)
 Received by: (signature)

Program B Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Deliverables
 Chromatogram
 AIMA-LAP, LLC

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

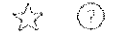
PCB ONLY
 Soxhlet
 Non Soxhlet



Sign In

TRACK ANOTHER SHIPMENT

813219360970



Delivered
Thursday 9/13/2018 at 9:25 am



DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES
OBTAIN PROOF OF DELIVERY

FROM
SAR US
TO
EAST LONGMEADOW, MA US

Travel History

Shipment Facts

9/13/2018 - Thursday

9:25 am

Delivered
MA

Expand History

9/12/2018 - Wednesday

4:16 pm

Picked up
PLATTSBURGH, NY

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAMD Remediation

Received By mp Date 9/13/18 Time 925

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 # 557 Actual Temp - 3.4
 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? _____
 Did COC include all pertinent Information? Client T Analysis T Sampler Name F
 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? Denn + Lauren
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F Acid _____ Base _____
 Do all samples have the proper pH? NA

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

August 30, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1346

Enclosed are results of analyses for samples received by the laboratory on August 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1346

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-5-Bot	18H1346-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-60-SLP	18H1346-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-6-Bot	18H1346-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-61-SLP	18H1346-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-7-Bot	18H1346-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-62-SLP	18H1346-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H1346-06[OU2-SED-62-SLP]

SW-846 8260C

Qualifications:**RL-13**

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

18H1346-06[OU2-SED-62-SLP]

SW-846 8270D

Qualifications:**S-01**

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

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18H1346-06RE2[OU2-SED-62-SLP]

Nitrobenzene-d5

18H1346-06RE2[OU2-SED-62-SLP]

p-Terphenyl-d14

18H1346-06RE2[OU2-SED-62-SLP]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Ethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Toluene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:05	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		112	70-130					8/29/18	9:05	
Toluene-d8		100	70-130					8/29/18	9:05	
4-Bromofluorobenzene		103	70-130					8/29/18	9:05	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Anthracene	0.087	0.21	0.060	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(a)anthracene	0.088	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(a)pyrene	0.088	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Chrysene	0.069	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Fluoranthene	0.20	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
2-Methylnaphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Phenanthrene	0.29	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Pyrene	0.31	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:48	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		65.2	30-130						8/29/18 22:48	
2-Fluorobiphenyl		61.8	30-130						8/29/18 22:48	
p-Terphenyl-d14		73.5	30-130						8/29/18 22:48	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:11	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.7		30-150						8/29/18 10:11	
Decachlorobiphenyl [2]	61.6		30-150						8/29/18 10:11	
Tetrachloro-m-xylene [1]	41.2		30-150						8/29/18 10:11	
Tetrachloro-m-xylene [2]	38.6		30-150						8/29/18 10:11	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-5-Bot

Sample ID: 18H1346-01

Start Date/Time: 8/27/2018 3:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:15:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Toluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					8/29/18	9:32	
Toluene-d8		99.8	70-130					8/29/18	9:32	
4-Bromofluorobenzene		101	70-130					8/29/18	9:32	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Fluoranthene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Fluorene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Phenanthrene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:17	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		61.0	30-130						8/29/18 23:17	
2-Fluorobiphenyl		60.1	30-130						8/29/18 23:17	
p-Terphenyl-d14		76.6	30-130						8/29/18 23:17	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:38	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.1		30-150				8/29/18 10:38			
Decachlorobiphenyl [2]	61.2		30-150				8/29/18 10:38			
Tetrachloro-m-xylene [1]	47.9		30-150				8/29/18 10:38			
Tetrachloro-m-xylene [2]	44.4		30-150				8/29/18 10:38			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-60-SLP

Sample ID: 18H1346-02

Start Date/Time: 8/27/2018 3:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:21:00PM

Conventional 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	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:00	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/29/18	10:00	
Toluene-d8		102	70-130					8/29/18	10:00	
4-Bromofluorobenzene		101	70-130					8/29/18	10:00	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 23:45	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		64.1	30-130						8/29/18 23:45	
2-Fluorobiphenyl		64.1	30-130						8/29/18 23:45	
p-Terphenyl-d14		76.6	30-130						8/29/18 23:45	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Endosulfan I [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:06	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.5		30-150				8/29/18 11:06			
Decachlorobiphenyl [2]	61.1		30-150				8/29/18 11:06			
Tetrachloro-m-xylene [1]	40.9		30-150				8/29/18 11:06			
Tetrachloro-m-xylene [2]	37.7		30-150				8/29/18 11:06			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-6-Bot

Sample ID: 18H1346-03

Start Date/Time: 8/27/2018 3:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 10:28	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					8/29/18	10:28	
Toluene-d8		101	70-130					8/29/18	10:28	
4-Bromofluorobenzene		102	70-130					8/29/18	10:28	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
2-Methylnaphthalene	ND	0.19	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:12	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.5	30-130						8/30/18 0:12	
2-Fluorobiphenyl		55.6	30-130						8/30/18 0:12	
p-Terphenyl-d14		71.2	30-130						8/30/18 0:12	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:33	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.6		30-150				8/29/18 11:33			
Decachlorobiphenyl [2]	61.0		30-150				8/29/18 11:33			
Tetrachloro-m-xylene [1]	42.3		30-150				8/29/18 11:33			
Tetrachloro-m-xylene [2]	39.5		30-150				8/29/18 11:33			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-61-SLP

Sample ID: 18H1346-04

Start Date/Time: 8/27/2018 3:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:39:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.0		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Ethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Isopropylbenzene (Cumene)	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
Toluene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
1,2,4-Trimethylbenzene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
m+p Xylene	ND	0.094		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH
o-Xylene	ND	0.047		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.0	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
2-Methylnaphthalene	0.11	0.21	0.073	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Phenanthrene	0.13	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 0:40	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		71.5	30-130						8/30/18 0:40	
2-Fluorobiphenyl		70.9	30-130						8/30/18 0:40	
p-Terphenyl-d14		90.1	30-130						8/30/18 0:40	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG
Endosulfan II [1]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:00	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	63.6	30-150	
Decachlorobiphenyl [2]	57.5	30-150	
Tetrachloro-m-xylene [1]	48.0	30-150	
Tetrachloro-m-xylene [2]	43.5	30-150	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-7-Bot

Sample ID: 18H1346-05

Start Date/Time: 8/27/2018 4:15:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:20:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Ethylbenzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Isopropylbenzene (Cumene)	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
Toluene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
1,2,4-Trimethylbenzene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
m+p Xylene	ND	3.8		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH
o-Xylene	ND	1.9		mg/Kg dry	10		SW-846 8260C	8/29/18	8/29/18 10:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	97.3	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	60	8.2	2.5	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Acenaphthylene	9.0	0.82	0.28	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Anthracene	57	8.2	2.4	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(a)anthracene	48	8.2	2.2	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(a)pyrene	52	8.2	2.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(b)fluoranthene	35	8.2	2.3	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(g,h,i)perylene	24	8.2	3.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Benzo(k)fluoranthene	12	0.82	0.26	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Chrysene	37	8.2	2.6	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Dibenz(a,h)anthracene	6.3	0.82	0.50	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:36	CDT
Fluoranthene	81	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Fluorene	41	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Indeno(1,2,3-cd)pyrene	22	8.2	5.9	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
2-Methylnaphthalene	110	8.2	2.9	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Naphthalene	110	8.2	4.2	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT
Phenanthrene	200	16	8.5	mg/Kg dry	20		SW-846 8270D	8/28/18	8/30/18 9:27	BGL
Pyrene	160	8.2	2.7	mg/Kg dry	10		SW-846 8270D	8/28/18	8/30/18 2:31	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed	Analyst
Nitrobenzene-d5	68.0	30-130		8/30/18 1:36	
Nitrobenzene-d5	55.4	30-130		8/30/18 2:31	
Nitrobenzene-d5	*	30-130	S-01	8/30/18 9:27	
2-Fluorobiphenyl	56.2	30-130		8/30/18 1:36	
2-Fluorobiphenyl	56.3	30-130		8/30/18 2:31	
2-Fluorobiphenyl	*	30-130	S-01	8/30/18 9:27	
p-Terphenyl-d14	73.5	30-130		8/30/18 1:36	
p-Terphenyl-d14	72.4	30-130		8/30/18 2:31	
p-Terphenyl-d14	*	30-130	S-01	8/30/18 9:27	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.19	0.014	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
4,4'-DDT [1]	ND	0.19	0.019	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
Endosulfan I [1]	ND	0.24	0.019	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
Endosulfan II [1]	ND	0.39	0.014	mg/Kg dry	20		SW-846 8081B	8/28/18	8/29/18 12:28	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	60.8		30-150				8/29/18 12:28			
Decachlorobiphenyl [2]	92.9		30-150				8/29/18 12:28			
Tetrachloro-m-xylene [1]	31.7		30-150				8/29/18 12:28			
Tetrachloro-m-xylene [2]	35.9		30-150				8/29/18 12:28			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1346

Date Received: 8/28/2018

Field Sample #: OU2-SED-62-SLP

Sample ID: 18H1346-06

Start Date/Time: 8/27/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:25:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	39.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:18	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1346-01 [OU2-SED-5-Bot]	B211315	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211315	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211315	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211315	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211315	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211315	08/28/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211301	10.1	10.0	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211301	10.0	10.0	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211301	10.0	10.0	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211301	10.0	10.0	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211301	10.2	10.0	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211301	10.6	10.0	08/28/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H1346-05 [OU2-SED-7-Bot]	B211330	9.02	6.79	1	50	08/29/18
18H1346-06 [OU2-SED-62-SLP]	B211330	5.67	8.45	0.1	50	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211345	8.02	10.0	08/29/18
18H1346-02 [OU2-SED-60-SLP]	B211345	6.97	10.0	08/29/18
18H1346-03 [OU2-SED-6-Bot]	B211345	8.31	10.0	08/29/18
18H1346-04 [OU2-SED-61-SLP]	B211345	7.73	10.0	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1346-01 [OU2-SED-5-Bot]	B211245	30.1	1.00	08/28/18
18H1346-02 [OU2-SED-60-SLP]	B211245	30.1	1.00	08/28/18
18H1346-03 [OU2-SED-6-Bot]	B211245	30.3	1.00	08/28/18
18H1346-04 [OU2-SED-61-SLP]	B211245	30.1	1.00	08/28/18
18H1346-05 [OU2-SED-7-Bot]	B211245	30.2	1.00	08/28/18
18H1346-06 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18
18H1346-06RE1 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18
18H1346-06RE2 [OU2-SED-62-SLP]	B211245	15.8	1.00	08/28/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211330 - SW-846 5030B

Blank (B211330-BLK1)

Prepared & Analyzed: 08/29/18

Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg wet							
Vinyl Chloride	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0263		mg/Kg wet	0.0250		105	70-130			
Surrogate: Toluene-d8	0.0248		mg/Kg wet	0.0250		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		97.9	70-130			

LCS (B211330-BS1)

Prepared & Analyzed: 08/29/18

Benzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130			
Isopropylbenzene (Cumene)	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130			
Toluene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Vinyl Chloride	0.0134	0.0023	mg/Kg wet	0.0113		118	40-130			†
m+p Xylene	0.0248	0.0023	mg/Kg wet	0.0227		109	70-130			
o-Xylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0261		mg/Kg wet	0.0283		92.1	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0283		mg/Kg wet	0.0283		99.8	70-130			

LCS Dup (B211330-BSD1)

Prepared & Analyzed: 08/29/18

Benzene	0.0138	0.0011	mg/Kg wet	0.0113		121	70-130	9.76	25	
Ethylbenzene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	1.51	25	
Isopropylbenzene (Cumene)	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	0.343	25	
Toluene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130	2.01	25	
1,2,4-Trichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	2.07	25	
Vinyl Chloride	0.0130	0.0023	mg/Kg wet	0.0113		114	40-130	3.44	25	†
m+p Xylene	0.0252	0.0023	mg/Kg wet	0.0227		111	70-130	1.68	25	
o-Xylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	1.82	25	
Surrogate: 1,2-Dichloroethane-d4	0.0321		mg/Kg wet	0.0283		113	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

Batch B211345 - SW-846 5035

Blank (B211345-BLK1)

Prepared & Analyzed: 08/29/18

Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211345 - SW-846 5035										
LCS (B211345-BS1)										
Prepared & Analyzed: 08/29/18										
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Ethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Toluene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0526		mg/Kg wet	0.0500		105	70-130			
LCS Dup (B211345-BSD1)										
Prepared & Analyzed: 08/29/18										
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	1.67	25	
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	17.2	25	
Isopropylbenzene (Cumene)	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	16.8	25	
Toluene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.898	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	3.89	25	
m+p Xylene	0.0359	0.0040	mg/Kg wet	0.0400		89.6	70-130	12.2	25	
o-Xylene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130	21.8	25	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0543		mg/Kg wet	0.0500		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0461		mg/Kg wet	0.0500		92.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211245 - SW-846 3546										
Blank (B211245-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg wet	3.33		79.9	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.8	30-130			
LCS (B211245-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(a)pyrene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140			
2-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.3	40-140			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.9	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 B211245 - SW-846 3546										
LCS Dup (B211245-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	0.842	30	
Acenaphthylene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	1.38	30	
Anthracene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140	3.69	30	
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	0.0250	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140	1.97	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	1.24	30	
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	0.753	30	
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	1.29	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	3.13	30	
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	2.59	30	
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	4.33	30	
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	0.586	30	
Indeno(1,2,3-cd)pyrene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140	2.81	30	
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140	4.03	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	3.25	30	
Phenanthrene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	3.33	30	
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	2.05	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.76		mg/Kg wet	3.33		82.7	30-130			
Surrogate: p-Terphenyl-d14	3.27		mg/Kg wet	3.33		98.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211301 - SW-846 3546										
Blank (B211301-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0842		mg/Kg wet	0.200		42.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0792		mg/Kg wet	0.200		39.6	30-150			
LCS (B211301-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	0.094	0.0040	mg/Kg wet	0.100		93.5	40-140			
4,4'-DDE [2C]	0.080	0.0040	mg/Kg wet	0.100		80.0	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		88.3	40-140			
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		78.1	40-140			
Endosulfan I	0.079	0.0050	mg/Kg wet	0.100		78.8	40-140			
Endosulfan I [2C]	0.073	0.0050	mg/Kg wet	0.100		72.8	40-140			
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.2	40-140			
Endosulfan II [2C]	0.077	0.0080	mg/Kg wet	0.100		76.8	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg wet	0.200		54.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg wet	0.200		50.3	30-150			
LCS Dup (B211301-BSD1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.0	40-140	8.32	30	
4,4'-DDE [2C]	0.074	0.0040	mg/Kg wet	0.100		73.8	40-140	8.15	30	
4,4'-DDT	0.082	0.0040	mg/Kg wet	0.100		81.6	40-140	7.93	30	
4,4'-DDT [2C]	0.072	0.0040	mg/Kg wet	0.100		72.4	40-140	7.65	30	
Endosulfan I	0.071	0.0050	mg/Kg wet	0.100		71.3	40-140	9.96	30	
Endosulfan I [2C]	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	9.32	30	
Endosulfan II	0.075	0.0080	mg/Kg wet	0.100		75.5	40-140	8.57	30	
Endosulfan II [2C]	0.071	0.0080	mg/Kg wet	0.100		71.1	40-140	7.74	30	
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.0879		mg/Kg wet	0.200		44.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0826		mg/Kg wet	0.200		41.3	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211315 - % Solids

Duplicate (B211315-DUP3)

Source: 18H1346-01

Prepared: 08/28/18 Analyzed: 08/29/18

% Solids	80.6		% Wt		80.8			0.280	20	
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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.61
Endrin [1] 1.47

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 2.41

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.68
Endrin [1] 1.26

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.27
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.67
Endrin [1] 1.16

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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.24
Endrin [2] 1.91

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM4 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.49
Endrin [1] 2.76

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.67
Endrin [2] 3.71

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM5 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 1.72

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.14
Endrin [2] 2.68

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.11
Endrin [1] 3.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.21
Endrin [2] 3.80

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.83
Endrin [1] 3.38

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.95
Endrin [2] 3.44

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 3.36

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 Analyzed: 08/29/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.14
Endrin [2]	3.83

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM4 Analyzed: 08/29/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.06
Endrin [1]	3.43

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.21
Endrin [2]	3.41

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****LCS***SW-846 8081B*Lab Sample ID: B211301-BS1 Date(s) Analyzed: 08/29/2018 08/29/2018Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.986	6.957	7.017	0.094	
	2	6.921	6.891	6.951	0.080	16.1
4,4'-DDT	1	7.652	7.624	7.684	0.088	
	2	7.598	7.568	7.628	0.078	12.0
Endosulfan I	1	7.035	7.007	7.067	0.079	
	2	6.833	6.803	6.863	0.073	7.9
Endosulfan II	1	7.561	7.532	7.592	0.082	
	2	7.423	7.393	7.453	0.077	6.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B211301-BSD1 Date(s) Analyzed: 08/29/2018 08/29/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.986	6.957	7.017	0.086	
	2	6.921	6.891	6.951	0.074	15.0
4,4'-DDT	1	7.652	7.624	7.684	0.082	
	2	7.598	7.568	7.628	0.072	13.0
Endosulfan I	1	7.035	7.007	7.067	0.071	
	2	6.833	6.803	6.863	0.066	7.3
Endosulfan II	1	7.561	7.532	7.592	0.075	
	2	7.423	7.393	7.453	0.071	6.8

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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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
RL-13	Elevated reporting limit due to high concentration of non-target compounds.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

39 Spruce Street
East Longmeadow, MA 01028

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation

Company Name: _____

Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: Saranac Lake OU_3

Project Number: _____

Project Manager: Matthew Warren

Con-Test Quote Name/Number: _____

Invoice Recipient: miw@land-remediation.com

Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day

Due Date: _____

Rush-Approval Required: 1-Day 3-Day

2-Day 4-Day

Format: PDF EXCEL

Other: CAT B - Equis

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-5-Bot	8/27/2018 15:14	8/27/2018 15:15		X	S	L
2	OU2-SED-60-SLP	8/27/2018 15:17	8/27/2018 15:21		X	S	L
3	OU2-SED-6-Bot	8/27/2018 15:24	8/27/2018 15:30		X	S	L
4	OU2-SED-61-SLP	8/27/2018 15:34	8/27/2018 15:39		X	S	L
5	OU2-SED-7-Bot	8/27/2018 16:15	8/27/2018 16:20		X	S	L
6	OU2-SED-62-SLP	8/27/2018 16:20	8/27/2018 16:25		X	S	L

# of Containers	1	2	3	4	5	6	7	8	9	10
Preservation Code										
Container Code										
Field Filtered										
Lab to Filter										
Field Filtered										
Lab to Filter										

ANALYSIS REQUESTED

Matrix Code	1	2	3	4	5	6	7	8	9	10
GW = Ground Water										
WW = Waste Water										
DW = Drinking Water										
A = Air										
S = Soil										
SL = Sludge										
SOL = Solid										
O = Other (please define)										

- 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: LRI Personnel - Attached

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

Only report analytes shown on Table 4-2. (Attached for reference).

Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/28/18 9:00
<i>[Signature]</i>	8-28-18 9:00 A
<i>[Signature]</i>	8-28-18 1320
<i>[Signature]</i>	8-28-18 1320 P.R.
<i>[Signature]</i>	8-28-18 1425
<i>[Signature]</i>	8-28-18 14:25

Program B Regulatory Information

AWQ STDS

NY TOGS

NYC Sewer Discharge Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

Enhanced Data Package

NYSDEC EQUS EDD

EQUS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Deliverables

Chromatogram

AIHA-LAP, LLC

Project Entity

Government

Federal

City

Municipality

21 J

Brownfield

MWRA

School

MBTA

WRTA

Other

AIHA-LAP, LLC Accredited

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Lynn Remington

Received By ESD Date 8-28-18 Time 14:25

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 # 533 Actual Temp - 3.3, 3.2
 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? Mark, Ray
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>6</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>12</u>	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:

August 28, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1234

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/28/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1234

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-1/Bottom	18H1234-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-2/Bottom	18H1234-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-3/Bottom	18H1234-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-4/Bottom	18H1234-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-53/SLP	18H1234-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-54/SLP	18H1234-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-55/SLP	18H1234-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-56/SLP	18H1234-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-57/SLP	18H1234-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-58/SLP	18H1234-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

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

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/28/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1234

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-59/SLP	18H1234-11	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:**

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H1234-05[OU2-SED-53/SLP]

SW-846 8270D**Qualifications:**

E

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

Analyte & Samples(s) Qualified:**Phenanthrene**

18H1234-04[OU2-SED-4/Bottom]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-1/Bottom

Sample ID: 18H1234-01

Start Date/Time: 8/23/2018 12:12:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:17:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 15:39	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		107	70-130					8/27/18	15:39	
Toluene-d8		99.4	70-130					8/27/18	15:39	
4-Bromofluorobenzene		99.9	70-130					8/27/18	15:39	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-1/Bottom

Sample ID: 18H1234-01

Start Date/Time: 8/23/2018 12:12:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:17:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Pyrene	0.18	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 21:29	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.8	30-130						8/25/18 21:29	
2-Fluorobiphenyl		62.2	30-130						8/25/18 21:29	
p-Terphenyl-d14		83.6	30-130						8/25/18 21:29	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-1/Bottom

Sample ID: 18H1234-01

Start Date/Time: 8/23/2018 12:12:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:17:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:57	TG
4,4'-DDT [1]	0.00078	0.0047	0.00047	mg/Kg dry	1	J	SW-846 8081B	8/24/18	8/25/18 19:57	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:57	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:57	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.7		30-150						8/25/18 19:57	
Decachlorobiphenyl [2]	99.0		30-150						8/25/18 19:57	
Tetrachloro-m-xylene [1]	96.1		30-150						8/25/18 19:57	
Tetrachloro-m-xylene [2]	87.3		30-150						8/25/18 19:57	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-1/Bottom

Sample ID: 18H1234-01

Start Date/Time: 8/23/2018 12:12:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:17:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/26/18	8/27/18 8:12	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-2/Bottom

Sample ID: 18H1234-02

Start Date/Time: 8/23/2018 9:08:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:10:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
m+p Xylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:07	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					8/27/18	16:07	
Toluene-d8		99.3	70-130					8/27/18	16:07	
4-Bromofluorobenzene		99.7	70-130					8/27/18	16:07	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-2/Bottom

Sample ID: 18H1234-02

Start Date/Time: 8/23/2018 9:08:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Benzo(g,h,i)perylene	ND	0.22	0.096	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 21:54	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		46.3	30-130						8/25/18 21:54	
2-Fluorobiphenyl		50.7	30-130						8/25/18 21:54	
p-Terphenyl-d14		68.6	30-130						8/25/18 21:54	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-2/Bottom

Sample ID: 18H1234-02

Start Date/Time: 8/23/2018 9:08:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:10:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:24	TG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:24	TG
Endosulfan I [1]	ND	0.0063	0.00051	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:24	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.1		30-150						8/25/18 20:24	
Decachlorobiphenyl [2]	81.4		30-150						8/25/18 20:24	
Tetrachloro-m-xylene [1]	83.2		30-150						8/25/18 20:24	
Tetrachloro-m-xylene [2]	81.0		30-150						8/25/18 20:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-2/Bottom

Sample ID: 18H1234-02

Start Date/Time: 8/23/2018 9:08:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:10:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.2		% Wt	1		SM 2540G	8/26/18	8/27/18 8:13	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-3/Bottom

Sample ID: 18H1234-03

Start Date/Time: 8/23/2018 9:27:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:30:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
Toluene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
m+p Xylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 16:35	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					8/27/18	16:35	
Toluene-d8		99.0	70-130					8/27/18	16:35	
4-Bromofluorobenzene		104	70-130					8/27/18	16:35	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-3/Bottom

Sample ID: 18H1234-03

Start Date/Time: 8/23/2018 9:27:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:30:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.13	0.21	0.064	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Acenaphthylene	0.33	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Anthracene	0.26	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Benzo(a)anthracene	0.13	0.21	0.056	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Benzo(a)pyrene	0.11	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Benzo(b)fluoranthene	0.065	0.21	0.060	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Chrysene	0.092	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Fluoranthene	0.25	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Fluorene	0.26	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
2-Methylnaphthalene	1.1	0.21	0.074	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Naphthalene	0.32	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Phenanthrene	0.93	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Pyrene	0.48	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 22:19	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	42.6		30-130				8/25/18 22:19			
2-Fluorobiphenyl	47.0		30-130				8/25/18 22:19			
p-Terphenyl-d14	63.3		30-130				8/25/18 22:19			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-3/Bottom

Sample ID: 18H1234-03

Start Date/Time: 8/23/2018 9:27:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:30:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:51	TG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:51	TG
Endosulfan I [1]	ND	0.0063	0.00051	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:51	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 20:51	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.0		30-150				8/25/18 20:51			
Decachlorobiphenyl [2]	81.5		30-150				8/25/18 20:51			
Tetrachloro-m-xylene [1]	78.5		30-150				8/25/18 20:51			
Tetrachloro-m-xylene [2]	70.8		30-150				8/25/18 20:51			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-3/Bottom

Sample ID: 18H1234-03

Start Date/Time: 8/23/2018 9:27:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:30:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	8/26/18	8/27/18 8:13	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-4/Bottom

Sample ID: 18H1234-04

Start Date/Time: 8/23/2018 9:46:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
Ethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
Toluene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
m+p Xylene	ND	0.0034	0.0015	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
o-Xylene	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
Xylenes (total)	ND	0.0052		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 17:02	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		109	70-130					8/27/18	17:02	
Toluene-d8		99.1	70-130					8/27/18	17:02	
4-Bromofluorobenzene		103	70-130					8/27/18	17:02	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-4/Bottom

Sample ID: 18H1234-04

Start Date/Time: 8/23/2018 9:46:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:50:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.69	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Acenaphthylene	0.24	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Anthracene	1.6	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Benzo(a)anthracene	0.91	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Benzo(a)pyrene	0.90	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Benzo(b)fluoranthene	0.62	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Benzo(g,h,i)perylene	0.46	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Benzo(k)fluoranthene	0.23	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Chrysene	0.81	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Fluoranthene	2.6	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Fluorene	1.4	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Indeno(1,2,3-cd)pyrene	0.39	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
2-Methylnaphthalene	0.64	0.21	0.073	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Phenanthrene	6.0	0.21	0.11	mg/Kg dry	1	E	SW-846 8270D	8/24/18	8/27/18 10:49	CDT
Phenanthrene	6.1	0.42	0.22	mg/Kg dry	2		SW-846 8270D	8/24/18	8/27/18 16:43	CDT
Pyrene	3.6	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 10:49	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	61.3	30-130	8/27/18 10:49
Nitrobenzene-d5	61.1	30-130	8/27/18 16:43
2-Fluorobiphenyl	63.4	30-130	8/27/18 10:49
2-Fluorobiphenyl	62.3	30-130	8/27/18 16:43
p-Terphenyl-d14	73.7	30-130	8/27/18 10:49
p-Terphenyl-d14	76.3	30-130	8/27/18 16:43

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-4/Bottom

Sample ID: 18H1234-04

Start Date/Time: 8/23/2018 9:46:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:50:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 21:18	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 21:18	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 21:18	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 21:18	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.3		30-150						8/25/18 21:18	
Decachlorobiphenyl [2]	91.7		30-150						8/25/18 21:18	
Tetrachloro-m-xylene [1]	85.1		30-150						8/25/18 21:18	
Tetrachloro-m-xylene [2]	75.8		30-150						8/25/18 21:18	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-4/Bottom

Sample ID: 18H1234-04

Start Date/Time: 8/23/2018 9:46:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:50:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.3		% Wt	1		SM 2540G	8/26/18	8/27/18 8:13	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-53/SLP

Sample ID: 18H1234-05

Start Date/Time: 8/23/2018 12:18:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:21:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
Ethylbenzene	0.0039	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
Isopropylbenzene (Cumene)	0.0045	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
Toluene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
1,2,4-Trimethylbenzene	0.054	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
m+p Xylene	0.0099	0.0048	0.0021	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
o-Xylene	0.0065	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
Xylenes (total)	0.016	0.0073		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:09	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130					8/27/18	21:09	
Toluene-d8		99.2	70-130					8/27/18	21:09	
4-Bromofluorobenzene		103	70-130					8/27/18	21:09	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-53/SLP

Sample ID: 18H1234-05

Start Date/Time: 8/23/2018 12:18:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:21:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthylene	0.70	0.20	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Benzo(a)anthracene	3.4	0.20	0.054	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Benzo(a)pyrene	2.9	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Benzo(b)fluoranthene	2.3	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Benzo(g,h,i)perylene	0.91	0.20	0.089	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Benzo(k)fluoranthene	0.74	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Chrysene	2.9	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Dibenz(a,h)anthracene	0.19	0.20	0.12	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Indeno(1,2,3-cd)pyrene	0.82	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:16	CDT
Phenanthrene	25	2.0	1.0	mg/Kg dry	10		SW-846 8270D	8/24/18	8/28/18 9:07	BGL
Phenanthrene	24	1.0	0.52	mg/Kg dry	5		SW-846 8270D	8/24/18	8/27/18 17:11	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	56.9		30-130				8/27/18 11:16			
Nitrobenzene-d5	61.5		30-130				8/27/18 17:11			
2-Fluorobiphenyl	58.1		30-130				8/27/18 11:16			
2-Fluorobiphenyl	65.2		30-130				8/27/18 17:11			
p-Terphenyl-d14	73.8		30-130				8/27/18 11:16			
p-Terphenyl-d14	76.2		30-130				8/27/18 17:11			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-53/SLP

Sample ID: 18H1234-05

Start Date/Time: 8/23/2018 12:18:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:21:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.048	0.0036	mg/Kg dry	10		SW-846 8081B	8/24/18	8/27/18 11:41	TG
4,4'-DDT [1]	0.0066	0.048	0.0048	mg/Kg dry	10	J	SW-846 8081B	8/24/18	8/27/18 11:41	TG
Endosulfan I [1]	ND	0.060	0.0048	mg/Kg dry	10		SW-846 8081B	8/24/18	8/27/18 11:41	TG
Endosulfan II [1]	ND	0.096	0.0036	mg/Kg dry	10		SW-846 8081B	8/24/18	8/27/18 11:41	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.6		30-150				8/27/18 11:41			
Decachlorobiphenyl [2]	86.5		30-150				8/27/18 11:41			
Tetrachloro-m-xylene [1]	71.8		30-150				8/27/18 11:41			
Tetrachloro-m-xylene [2]	67.1		30-150				8/27/18 11:41			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-53/SLP

Sample ID: 18H1234-05

Start Date/Time: 8/23/2018 12:18:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:21:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	8/26/18	8/27/18 8:13	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-54/SLP

Sample ID: 18H1234-06

Start Date/Time: 8/23/2018 12:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
Ethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
Toluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
1,2,4-Trimethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
Xylenes (total)	ND	0.0068		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 21:36	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		106	70-130					8/27/18	21:36	
Toluene-d8		101	70-130					8/27/18	21:36	
4-Bromofluorobenzene		103	70-130					8/27/18	21:36	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-54/SLP

Sample ID: 18H1234-06

Start Date/Time: 8/23/2018 12:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Benzo(g,h,i)perylene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Naphthalene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 11:43	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		60.6	30-130						8/27/18 11:43	
2-Fluorobiphenyl		63.6	30-130						8/27/18 11:43	
p-Terphenyl-d14		70.5	30-130						8/27/18 11:43	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-54/SLP

Sample ID: 18H1234-06

Start Date/Time: 8/23/2018 12:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00033	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:08	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:08	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:08	TG
Endosulfan II [1]	ND	0.0089	0.00033	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:08	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	51.8		30-150						8/27/18 12:08	
Decachlorobiphenyl [2]	49.7		30-150						8/27/18 12:08	
Tetrachloro-m-xylene [1]	55.8		30-150						8/27/18 12:08	
Tetrachloro-m-xylene [2]	53.0		30-150						8/27/18 12:08	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-54/SLP

Sample ID: 18H1234-06

Start Date/Time: 8/23/2018 12:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/26/18	8/27/18 8:13	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-55/SLP

Sample ID: 18H1234-07

Start Date/Time: 8/23/2018 9:13:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:17:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
Ethylbenzene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
Isopropylbenzene (Cumene)	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
Toluene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
1,2,4-Trimethylbenzene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
m+p Xylene	ND	0.0063	0.0027	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
o-Xylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
Xylenes (total)	ND	0.0094		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:04	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/27/18	22:04	
Toluene-d8		98.9	70-130					8/27/18	22:04	
4-Bromofluorobenzene		101	70-130					8/27/18	22:04	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-55/SLP

Sample ID: 18H1234-07

Start Date/Time: 8/23/2018 9:13:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:17:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.27	0.080	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Acenaphthylene	ND	0.27	0.089	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Anthracene	ND	0.27	0.077	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Benzo(a)anthracene	ND	0.27	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Benzo(a)pyrene	ND	0.27	0.083	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Benzo(b)fluoranthene	ND	0.27	0.075	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Benzo(g,h,i)perylene	ND	0.27	0.12	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Benzo(k)fluoranthene	ND	0.27	0.083	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Chrysene	ND	0.27	0.083	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Dibenz(a,h)anthracene	ND	0.27	0.16	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Fluoranthene	ND	0.27	0.088	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Fluorene	ND	0.27	0.086	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.27	0.19	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
2-Methylnaphthalene	ND	0.27	0.092	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Naphthalene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Phenanthrene	ND	0.27	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Pyrene	ND	0.27	0.088	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:10	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.0	30-130						8/27/18 12:10	
2-Fluorobiphenyl		59.7	30-130						8/27/18 12:10	
p-Terphenyl-d14		75.2	30-130						8/27/18 12:10	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-55/SLP

Sample ID: 18H1234-07

Start Date/Time: 8/23/2018 9:13:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:17:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0063	0.00047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:35	TG
4,4'-DDT [1]	ND	0.0063	0.00063	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:35	TG
Endosulfan I [1]	ND	0.0079	0.00063	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:35	TG
Endosulfan II [1]	ND	0.013	0.00047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 12:35	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	94.2		30-150						8/27/18 12:35	
Decachlorobiphenyl [2]	88.3		30-150						8/27/18 12:35	
Tetrachloro-m-xylene [1]	93.3		30-150						8/27/18 12:35	
Tetrachloro-m-xylene [2]	89.0		30-150						8/27/18 12:35	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-55/SLP

Sample ID: 18H1234-07

Start Date/Time: 8/23/2018 9:13:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:17:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.6		% Wt	1		SM 2540G	8/26/18	8/27/18 8:14	KMG

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-56/SLP

Sample ID: 18H1234-08

Start Date/Time: 8/23/2018 9:20:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:25:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0024	0.00086	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
Ethylbenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
Isopropylbenzene (Cumene)	ND	0.0024	0.00086	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
Toluene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
1,2,4-Trimethylbenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
o-Xylene	ND	0.0024	0.00086	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
Xylenes (total)	ND	0.0073		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:31	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/27/18	22:31	
Toluene-d8		102	70-130					8/27/18	22:31	
4-Bromofluorobenzene		103	70-130					8/27/18	22:31	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-56/SLP

Sample ID: 18H1234-08

Start Date/Time: 8/23/2018 9:20:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:25:00AM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Anthracene	0.075	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Fluoranthene	0.093	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Phenanthrene	0.23	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Pyrene	0.17	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 12:37	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		31.5	30-130						8/27/18 12:37	
2-Fluorobiphenyl		41.0	30-130						8/27/18 12:37	
p-Terphenyl-d14		53.0	30-130						8/27/18 12:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-56/SLP

Sample ID: 18H1234-08

Start Date/Time: 8/23/2018 9:20:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:25:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:03	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:03	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:03	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:03	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	105		30-150						8/27/18 13:03	
Decachlorobiphenyl [2]	103		30-150						8/27/18 13:03	
Tetrachloro-m-xylene [1]	108		30-150						8/27/18 13:03	
Tetrachloro-m-xylene [2]	95.9		30-150						8/27/18 13:03	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-56/SLP

Sample ID: 18H1234-08

Start Date/Time: 8/23/2018 9:20:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:25:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	8/26/18	8/27/18 8:14	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-57/SLP

Sample ID: 18H1234-09

Start Date/Time: 8/23/2018 9:31:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:37:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
Toluene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 22:58	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/27/18	22:58	
Toluene-d8		99.4	70-130					8/27/18	22:58	
4-Bromofluorobenzene		101	70-130					8/27/18	22:58	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-57/SLP

Sample ID: 18H1234-09

Start Date/Time: 8/23/2018 9:31:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:37:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Benzo(a)anthracene	0.083	0.20	0.054	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Benzo(a)pyrene	0.091	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Benzo(b)fluoranthene	0.096	0.20	0.057	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Chrysene	0.082	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Fluoranthene	0.14	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Pyrene	0.20	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 13:05	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		38.1	30-130						8/27/18 13:05	
2-Fluorobiphenyl		48.2	30-130						8/27/18 13:05	
p-Terphenyl-d14		62.2	30-130						8/27/18 13:05	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-57/SLP

Sample ID: 18H1234-09

Start Date/Time: 8/23/2018 9:31:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:37:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:30	TG
4,4'-DDT [1]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:30	TG
Endosulfan I [1]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:30	TG
Endosulfan II [1]	ND	0.0094	0.00035	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:30	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.2		30-150						8/27/18 13:30	
Decachlorobiphenyl [2]	89.3		30-150						8/27/18 13:30	
Tetrachloro-m-xylene [1]	87.7		30-150						8/27/18 13:30	
Tetrachloro-m-xylene [2]	78.7		30-150						8/27/18 13:30	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-57/SLP

Sample ID: 18H1234-09

Start Date/Time: 8/23/2018 9:31:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:37:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	8/26/18	8/27/18 8:14	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-58/SLP

Sample ID: 18H1234-10

Start Date/Time: 8/23/2018 9:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:44:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:25	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		109	70-130					8/27/18	23:25	
Toluene-d8		101	70-130					8/27/18	23:25	
4-Bromofluorobenzene		101	70-130					8/27/18	23:25	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-58/SLP

Sample ID: 18H1234-10

Start Date/Time: 8/23/2018 9:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:44:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Acenaphthylene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Benzo(b)fluoranthene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Fluorene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
2-Methylnaphthalene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Phenanthrene	ND	0.19	0.096	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 15:46	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		35.0	30-130						8/27/18 15:46	
2-Fluorobiphenyl		47.0	30-130						8/27/18 15:46	
p-Terphenyl-d14		64.9	30-130						8/27/18 15:46	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-58/SLP

Sample ID: 18H1234-10

Start Date/Time: 8/23/2018 9:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:44:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:58	TG
4,4'-DDT [1]	ND	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:58	TG
Endosulfan I [1]	0.00067	0.0054	0.00043	mg/Kg dry	1	J	SW-846 8081B	8/24/18	8/27/18 13:58	TG
Endosulfan II [1]	ND	0.0086	0.00032	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 13:58	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	101		30-150						8/27/18 13:58	
Decachlorobiphenyl [2]	100		30-150						8/27/18 13:58	
Tetrachloro-m-xylene [1]	109		30-150						8/27/18 13:58	
Tetrachloro-m-xylene [2]	108		30-150						8/27/18 13:58	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-58/SLP

Sample ID: 18H1234-10

Start Date/Time: 8/23/2018 9:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 9:44:00AM

Conventional 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	8/26/18	8/27/18 8:14	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-59/SLP

Sample ID: 18H1234-11

Start Date/Time: 8/23/2018 10:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 11:00:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 23:52	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					8/27/18	23:52	
Toluene-d8		101	70-130					8/27/18	23:52	
4-Bromofluorobenzene		102	70-130					8/27/18	23:52	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-59/SLP

Sample ID: 18H1234-11

Start Date/Time: 8/23/2018 10:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 11:00:00AM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Fluoranthene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Phenanthrene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Pyrene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	8/24/18	8/27/18 16:14	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		50.3	30-130						8/27/18 16:14	
2-Fluorobiphenyl		57.6	30-130						8/27/18 16:14	
p-Terphenyl-d14		83.0	30-130						8/27/18 16:14	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-59/SLP

Sample ID: 18H1234-11

Start Date/Time: 8/23/2018 10:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 11:00:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0042	0.00031	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 14:25	TG
4,4'-DDT [1]	ND	0.0042	0.00042	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 14:25	TG
Endosulfan I [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 14:25	TG
Endosulfan II [1]	ND	0.0084	0.00031	mg/Kg dry	1		SW-846 8081B	8/24/18	8/27/18 14:25	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	109		30-150						8/27/18 14:25	
Decachlorobiphenyl [2]	108		30-150						8/27/18 14:25	
Tetrachloro-m-xylene [1]	108		30-150						8/27/18 14:25	
Tetrachloro-m-xylene [2]	107		30-150						8/27/18 14:25	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1234

Date Received: 8/24/2018

Field Sample #: OU2-SED-59/SLP

Sample ID: 18H1234-11

Start Date/Time: 8/23/2018 10:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 11:00:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	8/26/18	8/27/18 8:14	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1234-01 [OU2-SED-1/Bottom]	B211154	08/26/18
18H1234-02 [OU2-SED-2/Bottom]	B211154	08/26/18
18H1234-03 [OU2-SED-3/Bottom]	B211154	08/26/18
18H1234-04 [OU2-SED-4/Bottom]	B211154	08/26/18
18H1234-05 [OU2-SED-53/SLP]	B211154	08/26/18
18H1234-06 [OU2-SED-54/SLP]	B211154	08/26/18
18H1234-07 [OU2-SED-55/SLP]	B211154	08/26/18
18H1234-08 [OU2-SED-56/SLP]	B211154	08/26/18
18H1234-09 [OU2-SED-57/SLP]	B211154	08/26/18
18H1234-10 [OU2-SED-58/SLP]	B211154	08/26/18
18H1234-11 [OU2-SED-59/SLP]	B211154	08/26/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1234-01 [OU2-SED-1/Bottom]	B211093	10.1	10.0	08/24/18
18H1234-02 [OU2-SED-2/Bottom]	B211093	10.2	10.0	08/24/18
18H1234-03 [OU2-SED-3/Bottom]	B211093	10.0	10.0	08/24/18
18H1234-04 [OU2-SED-4/Bottom]	B211093	10.4	10.0	08/24/18
18H1234-05 [OU2-SED-53/SLP]	B211093	10.1	10.0	08/24/18
18H1234-06 [OU2-SED-54/SLP]	B211093	10.1	10.0	08/24/18
18H1234-07 [OU2-SED-55/SLP]	B211093	10.0	10.0	08/24/18
18H1234-08 [OU2-SED-56/SLP]	B211093	10.2	10.0	08/24/18
18H1234-09 [OU2-SED-57/SLP]	B211093	10.2	10.0	08/24/18
18H1234-10 [OU2-SED-58/SLP]	B211093	10.3	10.0	08/24/18
18H1234-11 [OU2-SED-59/SLP]	B211093	10.2	10.0	08/24/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1234-01 [OU2-SED-1/Bottom]	B211203	7.74	10.0	08/27/18
18H1234-02 [OU2-SED-2/Bottom]	B211203	8.21	10.0	08/27/18
18H1234-03 [OU2-SED-3/Bottom]	B211203	8.02	10.0	08/27/18
18H1234-04 [OU2-SED-4/Bottom]	B211203	7.34	10.0	08/27/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1234-05 [OU2-SED-53/SLP]	B211211	5.00	10.0	08/27/18
18H1234-06 [OU2-SED-54/SLP]	B211211	5.00	10.0	08/27/18
18H1234-07 [OU2-SED-55/SLP]	B211211	5.00	10.0	08/27/18
18H1234-08 [OU2-SED-56/SLP]	B211211	5.00	10.0	08/27/18
18H1234-09 [OU2-SED-57/SLP]	B211211	8.07	10.0	08/27/18
18H1234-10 [OU2-SED-58/SLP]	B211211	7.60	10.0	08/27/18
18H1234-11 [OU2-SED-59/SLP]	B211211	7.46	10.0	08/27/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1234-01 [OU2-SED-1/Bottom]	B211094	30.4	1.00	08/24/18

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Sample Extraction Data**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1234-02 [OU2-SED-2/Bottom]	B211094	30.3	1.00	08/24/18
18H1234-03 [OU2-SED-3/Bottom]	B211094	30.3	1.00	08/24/18
18H1234-04 [OU2-SED-4/Bottom]	B211094	30.4	1.00	08/24/18
18H1234-04RE1 [OU2-SED-4/Bottom]	B211094	30.4	1.00	08/24/18
18H1234-05 [OU2-SED-53/SLP]	B211094	30.4	1.00	08/24/18
18H1234-05RE1 [OU2-SED-53/SLP]	B211094	30.4	1.00	08/24/18
18H1234-05RE2 [OU2-SED-53/SLP]	B211094	30.4	1.00	08/24/18
18H1234-06 [OU2-SED-54/SLP]	B211094	30.0	1.00	08/24/18
18H1234-07 [OU2-SED-55/SLP]	B211094	30.1	1.00	08/24/18
18H1234-08 [OU2-SED-56/SLP]	B211094	30.4	1.00	08/24/18
18H1234-09 [OU2-SED-57/SLP]	B211094	30.2	1.00	08/24/18
18H1234-10 [OU2-SED-58/SLP]	B211094	30.5	1.00	08/24/18
18H1234-11 [OU2-SED-59/SLP]	B211094	30.2	1.00	08/24/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211203 - SW-846 5035										
Blank (B211203-BLK1)										
Prepared & Analyzed: 08/27/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.3	70-130			
LCS (B211203-BS1)										
Prepared & Analyzed: 08/27/18										
Benzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Toluene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		98.1	70-130			
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0539		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211203-BSD1)										
Prepared & Analyzed: 08/27/18										
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	2.52	25	
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	1.72	25	
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	0.375	25	
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	1.14	25	
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	1.76	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.7	70-130	1.39	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	3.35	25	
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
Batch B211211 - SW-846 5035										
Blank (B211211-BLK1)										
Prepared & Analyzed: 08/27/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211211 - SW-846 5035										
LCS (B211211-BS1)										
Prepared & Analyzed: 08/27/18										
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211211-BSD1)										
Prepared & Analyzed: 08/27/18										
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.736	25	
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.194	25	
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.52	25	
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	0.507	25	
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	1.53	25	
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130	0.893	25	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	1.95	25	
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211094 - SW-846 3546										
Blank (B211094-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.68		mg/Kg wet	3.33		80.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.1	30-130			
Surrogate: p-Terphenyl-d14	3.57		mg/Kg wet	3.33		107	30-130			
LCS (B211094-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
Acenaphthene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
Acenaphthylene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Benzo(g,h,i)perylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Dibenz(a,h)anthracene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140			
Fluorene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140			
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Surrogate: Nitrobenzene-d5	2.28		mg/Kg wet	3.33		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211094 - SW-846 3546										
LCS Dup (B211094-BSD1)										
					Prepared: 08/24/18 Analyzed: 08/25/18					
Acenaphthene	0.904	0.17	mg/Kg wet	1.67		54.2	40-140	8.51	30	
Acenaphthylene	0.892	0.17	mg/Kg wet	1.67		53.5	40-140	11.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	7.77	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	6.77	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	4.56	30	
Benzo(b)fluoranthene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140	7.31	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	5.54	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	2.41	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	7.61	30	
Dibenz(a,h)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	4.64	30	
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	5.49	30	
Fluorene	0.913	0.17	mg/Kg wet	1.67		54.8	40-140	7.45	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.97	30	
2-Methylnaphthalene	0.970	0.17	mg/Kg wet	1.67		58.2	40-140	12.2	30	
Naphthalene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140	15.4	30	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	6.90	30	
Pyrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.2	30	
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.33		63.5	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		81.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211093 - SW-846 3546										
Blank (B211093-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
LCS (B211093-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDE	0.080	0.0040	mg/Kg wet	0.100		80.2	40-140			
4,4'-DDE [2C]	0.081	0.0040	mg/Kg wet	0.100		81.4	40-140			
4,4'-DDT	0.073	0.0040	mg/Kg wet	0.100		72.9	40-140			
4,4'-DDT [2C]	0.071	0.0040	mg/Kg wet	0.100		71.2	40-140			
Endosulfan I	0.073	0.0050	mg/Kg wet	0.100		73.0	40-140			
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140			
Endosulfan II	0.075	0.0080	mg/Kg wet	0.100		74.9	40-140			
Endosulfan II [2C]	0.077	0.0080	mg/Kg wet	0.100		76.8	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			
LCS Dup (B211093-BSD1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDE	0.085	0.0040	mg/Kg wet	0.100		85.1	40-140	5.92	30	
4,4'-DDE [2C]	0.086	0.0040	mg/Kg wet	0.100		86.4	40-140	5.90	30	
4,4'-DDT	0.078	0.0040	mg/Kg wet	0.100		77.7	40-140	6.33	30	
4,4'-DDT [2C]	0.074	0.0040	mg/Kg wet	0.100		74.4	40-140	4.35	30	
Endosulfan I	0.078	0.0050	mg/Kg wet	0.100		78.0	40-140	6.68	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.2	40-140	5.44	30	
Endosulfan II	0.079	0.0080	mg/Kg wet	0.100		79.4	40-140	5.85	30	
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		81.3	40-140	5.70	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211154 - % Solids

Duplicate (B211154-DUP3)

Source: 18H1234-01

Prepared: 08/26/18 Analyzed: 08/27/18

% Solids	84.8		% Wt		84.3			0.632	20	
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BREAKDOWN REPORT

Lab Sample ID: S026635-PEM1 **Analyzed:** 08/25/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.18
Endrin [1] 2.74

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.44
Endrin [2] 2.77

BREAKDOWN REPORT

Lab Sample ID: S026635-PEM2 **Analyzed:** 08/25/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.27
Endrin [1] 2.37

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.45
Endrin [2] 2.38

BREAKDOWN REPORT

Lab Sample ID: S026635-PEM3 **Analyzed:** 08/26/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.28
Endrin [1] 2.83

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BREAKDOWN REPORT

Lab Sample ID: S026635-PEM3 **Analyzed:** 08/26/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.43
Endrin [2] 2.85

BREAKDOWN REPORT

Lab Sample ID: S026678-PEM1 **Analyzed:** 08/27/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.41
Endrin [1] 2.79

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.61
Endrin [2] 2.80

BREAKDOWN REPORT

Lab Sample ID: S026678-PEM2 **Analyzed:** 08/27/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.37
Endrin [1] 2.83

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.55
Endrin [2] 2.85

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

OU2-SED-1/Bottom

SW-846 8081B

Lab Sample ID: 18H1234-01 Date(s) Analyzed: 08/25/2018 08/25/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.543	7.515	7.575	0.00078	
	2	7.655	7.628	7.688	0.00074	5.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

OU2-SED-58/SLP

Lab Sample ID: 18H1234-10 Date(s) Analyzed: 08/27/2018 08/27/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.920	6.899	6.959	0.00067	
	2	6.893	6.859	6.919	0.00061	9.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B211093-BS1 Date(s) Analyzed: 08/25/2018 08/25/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.889	6.862	6.922	0.080	
	2	6.979	6.948	7.008	0.081	1.2
4,4'-DDT	1	7.545	7.519	7.579	0.073	
	2	7.658	7.628	7.688	0.071	2.8
Endosulfan I	1	6.934	6.907	6.967	0.073	
	2	6.892	6.862	6.922	0.076	4.0
Endosulfan II	1	7.449	7.423	7.483	0.075	
	2	7.485	7.455	7.515	0.077	2.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B211093-BSD1 Date(s) Analyzed: 08/25/2018 08/25/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.890	6.862	6.922	0.085	
	2	6.979	6.948	7.008	0.086	1.2
4,4'-DDT	1	7.546	7.519	7.579	0.078	
	2	7.658	7.628	7.688	0.074	5.3
Endosulfan I	1	6.934	6.907	6.967	0.078	
	2	6.893	6.862	6.922	0.080	2.5
Endosulfan II	1	7.449	7.423	7.483	0.079	
	2	7.486	7.455	7.515	0.081	2.5

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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-03	Elevated reporting limit due to matrix.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By:

Client Sample ID / Description: OUZ-SED-1/ Bottom
 OUZ-SED-2/ Bottom
 OUZ-SED-3/ Bottom
 OUZ-SED-4/ Bottom
 OUZ-SED-53/ SLP
 OUZ-SED-54/ SLP
 OUZ-SED-55/ SLP
 OUZ-SED-56/ SLP
 OUZ-SED-57/ SLP
 OUZ-SED-58/ SLP

Con-Test Work Order#	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	8/23/2018 12:12	8/23/2018 12:17	X		S	L
2	8/23/2018 9:09	8/23/2018 9:10	X		S	L
3	8/23/2018 9:27	8/23/2018 9:30	X		S	L
4	8/23/2018 9:46	8/23/2018 9:50	X		S	L
5	8/23/2018 12:18	8/23/2018 12:21	X		S	L
6	8/23/2018 12:24	8/23/2018 12:26	X		S	L
7	8/23/2018 9:13	8/23/2018 9:17	X		S	L
8	8/23/2018 9:20	8/23/2018 9:25	X		S	L
9	8/23/2018 9:31	8/23/2018 9:37	X		S	L
10	8/23/2018 9:38	8/23/2018 9:44	X		S	L

Comments: LRI Personnel - Attached

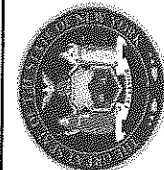
Only report analytes shown on Table 4-2 (Attached for reference).

Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8/24 9:10
Received by: (signature) <i>[Signature]</i>	Date/Time: 8-24-18 9:00
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8-24-18 13:30
Received by: (signature) <i>[Signature]</i>	Date/Time: 8-24-18 13:30
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8/24/18
Received by: (signature) <i>[Signature]</i>	Date/Time: 14:30

Requested Turnaround Time	Due Date:	Requested Turnaround Time	Due Date:	Requested Turnaround Time	Due Date:	Requested Turnaround Time	Due Date:	Requested Turnaround Time	Due Date:
7-Day	<input type="checkbox"/>	10-Day	<input type="checkbox"/>	3	1	1			
1-Day	<input checked="" type="checkbox"/>	3-Day	<input type="checkbox"/>	V	G	G			
2-Day	<input type="checkbox"/>	4-Day	<input type="checkbox"/>						

Requested Turnaround Time	<input type="checkbox"/> 7-Day	<input type="checkbox"/> 10-Day	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Due Date:	<input checked="" type="checkbox"/> 1-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> V	<input type="checkbox"/> G	<input type="checkbox"/> G
Rush-Approval Required	<input type="checkbox"/> 2-Day	<input type="checkbox"/> 4-Day			
Data Delivery	Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/>	Other: CAT B - Equis			
CLP Like Data Pkg Required:	<input type="checkbox"/>	Email To: mjw@land-remediation.com			
Fax To #:	JKL@land-remediation.com				

Analyses Requested	3	1	1	1	1	1	1	1	1	1	1	1	1	1
VOC 8270														
SVOC 8260														
Pesticides														



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

Program & Regulatory Information	<input type="checkbox"/> AWQ STDS	<input type="checkbox"/> NY TOGS
<input type="checkbox"/> NYC Sewer Discharge Part 360 GW (Landfill)	<input type="checkbox"/> NY Restricted Use	<input type="checkbox"/> NY Unrestricted Use
<input type="checkbox"/> NY Part 375	<input type="checkbox"/> Other:	

Deliverables	<input type="checkbox"/> Enhanced Data Package	<input type="checkbox"/> NYSDEC EQUIS EDD	<input type="checkbox"/> EQUIS (Standard) EDD	<input type="checkbox"/> NY Regulatory EDD	<input type="checkbox"/> NY Regs Hits-Only EDD
Project Entity	<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Federal	<input type="checkbox"/> City	<input type="checkbox"/> Municipality	<input type="checkbox"/> 21 J
<input type="checkbox"/> MBTA	<input type="checkbox"/> MBTA	<input type="checkbox"/> School	<input type="checkbox"/> MBTA	<input type="checkbox"/> WRTA	<input type="checkbox"/> WRTA
<input type="checkbox"/> Chromatogram	<input type="checkbox"/> AIHA-LAP, LLC				



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number: Matthew Warren
Project Manager:
Con-Test Quote Name/Number:
Invoice Recipient: mjlw@land-remediation.com
Sampled By:

Requested Turnaround Time
7-Day 10-Day
Due Date:
Rush Approval Required
1-Day 3-Day
2-Day 4-Day
Date Delivery
Format: PDF EXCEL
Other: CAT B - Equis
CLP Like Data Pkg Required:
Email To: mjlw@land-remediation.com
Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	1 st Matrix Code	Conc Code
11	OU2-SED-59/SLP	8/23/2018 10:50	8/23/2018 11:00	X		S	L
							X
							X
							X
							X

# of Containers	3	1	1
² Preservation Code	-	-	-
³ Container Code	V	G	G

ANALYSIS REQUESTED	VOC 8270	SVOC 8260	Pesticides

- 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)

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

Deliverables

<input type="checkbox"/>	Enhanced Data Package
<input checked="" type="checkbox"/>	NYSDEC EQuIS EDD
<input type="checkbox"/>	EQuIS (Standard) EDD
<input type="checkbox"/>	NY Regulatory EDD
<input type="checkbox"/>	NY Regs Hits-Only EDD

Program & Regulatory Information

AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 NY TOGS
 NY CP-51

Project Entity

 Government
 Federal
 City
 Municipality
 21 J
 Brownfield

Other:
MWRA WRTA
School MBTA
Chromatogram
AIHA-LAP, LLC

Relinquished by: *[Signature]* Date/Time: 8/24/18 9:00
Received by: *[Signature]* Date/Time: 8/24/18 9:00
Relinquished by: *[Signature]* Date/Time: 8/24/18 1330
Received by: *[Signature]* Date/Time: 8/24/18 1330
Relinquished by: *[Signature]* Date/Time: 8/24/18 1330
Received by: *[Signature]* Date/Time: 8/24/18 14:30

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Line 10/21/18

Received By ESD Date 8-24-18 Time 14:30

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 # 533 Actual Temp - 4.3, 3.8
 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? EM, Mike
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear //
Meoh-	11	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	22	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:

August 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0885

Enclosed are results of analyses for samples received by the laboratory on August 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0885

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-64/Sidewall	18H0885-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-63/Sidewall	18H0885-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-8/Bottom	18H0885-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-9/Bottom	18H0885-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-140/Bottom	18H0885-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0885-02[OU2-SED-63/Sidewall], 18H0885-03[OU2-SED-8/Bottom]

SW-846 8260C

Qualifications:**RL-02**

Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

18H0885-02[OU2-SED-63/Sidewall], 18H0885-03[OU2-SED-8/Bottom]

V-05

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

Analyte & Samples(s) Qualified:**1,4-Dioxane**

S026376-CCV1

V-20

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

Analyte & Samples(s) Qualified:**Methyl Acetate**

S026376-CCV1

V-34

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

Analyte & Samples(s) Qualified:**Bromomethane**

S026376-CCV1

Dichlorodifluoromethane (Freon 11)

S026376-CCV1

SW-846 8270D

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:**Acenaphthylene**

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02RE1[OU2-SED-63/Sidewall], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Anthracene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Benzo(a)pyrene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-03[OU2-SED-8/Bottom], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Benzo(b)fluoranthene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-03[OU2-SED-8/Bottom], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Benzo(k)fluoranthene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-03[OU2-SED-8/Bottom], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Fluoranthene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Fluorene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02[OU2-SED-63/Sidewall], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

Pyrene

18H0885-01[OU2-SED-64/Sidewall], 18H0885-02RE1[OU2-SED-63/Sidewall], 18H0885-04[OU2-SED-9/Bottom], 18H0885-05[OU2-SED-140/Bottom], B210576-BLK1, B210576-BS1, B210576-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-64/Sidewall

Sample ID: 18H0885-01

Start Date/Time: 8/16/2018 12:47:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 12:52:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
Ethylbenzene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
Toluene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
o-Xylene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 7:49	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		101	70-130					8/20/18	7:49	
Toluene-d8		100	70-130					8/20/18	7:49	
4-Bromofluorobenzene		102	70-130					8/20/18	7:49	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-64/Sidewall

Sample ID: 18H0885-01

Start Date/Time: 8/16/2018 12:47:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 12:52:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.44	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Acenaphthylene	ND	0.44	0.15	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Anthracene	ND	0.44	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Benzo(a)anthracene	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Benzo(a)pyrene	ND	0.44	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Benzo(b)fluoranthene	0.13	0.44	0.12	mg/Kg dry	1	R-05, J	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Benzo(g,h,i)perylene	ND	0.44	0.19	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Benzo(k)fluoranthene	ND	0.44	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Chrysene	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Dibenz(a,h)anthracene	ND	0.44	0.27	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Fluoranthene	ND	0.44	0.15	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Fluorene	ND	0.44	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Indeno(1,2,3-cd)pyrene	ND	0.44	0.32	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
2-Methylnaphthalene	ND	0.44	0.15	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Naphthalene	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Phenanthrene	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Pyrene	0.17	0.44	0.15	mg/Kg dry	1	J, R-05	SW-846 8270D	8/17/18	8/18/18 15:36	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		62.0	30-130						8/18/18 15:36	
2-Fluorobiphenyl		71.2	30-130						8/18/18 15:36	
p-Terphenyl-d14		83.1	30-130						8/18/18 15:36	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-64/Sidewall

Sample ID: 18H0885-01

Start Date/Time: 8/16/2018 12:47:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 12:52:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00038	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 20:04	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 20:04	TG
Endosulfan I [1]	ND	0.0063	0.00050	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 20:04	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 20:04	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.6		30-150				8/18/18 20:04			
Decachlorobiphenyl [2]	73.7		30-150				8/18/18 20:04			
Tetrachloro-m-xylene [1]	76.9		30-150				8/18/18 20:04			
Tetrachloro-m-xylene [2]	69.4		30-150				8/18/18 20:04			

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-64/Sidewall

Sample ID: 18H0885-01

Start Date/Time: 8/16/2018 12:47:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 12:52:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.7		% Wt	1		SM 2540G	8/18/18	8/19/18 15:19	BLM

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-63/Sidewall

Sample ID: 18H0885-02

Start Date/Time: 8/16/2018 1:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:10:00PM

Sample Flags: RL-02

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
Ethylbenzene	1.6	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
Isopropylbenzene (Cumene)	ND	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
Toluene	2.0	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
1,2,4-Trimethylbenzene	2.6	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
m+p Xylene	2.8	1.9		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD
o-Xylene	1.2	0.96		mg/Kg dry	20		SW-846 8260C	8/20/18	8/20/18 11:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.1	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	96.7	70-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-63/Sidewall

Sample ID: 18H0885-02

Start Date/Time: 8/16/2018 1:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.0	0.42	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Acenaphthylene	15	2.1	0.70	mg/Kg dry	5	R-05	SW-846 8270D	8/17/18	8/18/18 17:50	CDT
Anthracene	7.5	0.42	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Benzo(a)anthracene	3.3	0.42	0.11	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Benzo(a)pyrene	3.3	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Benzo(b)fluoranthene	2.4	0.42	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Benzo(g,h,i)perylene	1.1	0.42	0.19	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Benzo(k)fluoranthene	0.77	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Chrysene	2.9	0.42	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Dibenz(a,h)anthracene	ND	0.42	0.26	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Fluoranthene	8.7	0.42	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Fluorene	7.6	0.42	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:03	CDT
Indeno(1,2,3-cd)pyrene	1.0	0.42	0.30	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:03	CDT
2-Methylnaphthalene	35	2.1	0.73	mg/Kg dry	5		SW-846 8270D	8/17/18	8/18/18 17:50	CDT
Naphthalene	36	2.1	1.1	mg/Kg dry	5		SW-846 8270D	8/17/18	8/18/18 17:50	CDT
Phenanthrene	28	2.1	1.1	mg/Kg dry	5		SW-846 8270D	8/17/18	8/18/18 17:50	CDT
Pyrene	14	2.1	0.69	mg/Kg dry	5	R-05	SW-846 8270D	8/17/18	8/18/18 17:50	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	56.9		30-130				8/18/18 16:03			
Nitrobenzene-d5	56.8		30-130				8/18/18 17:50			
2-Fluorobiphenyl	58.7		30-130				8/18/18 16:03			
2-Fluorobiphenyl	60.4		30-130				8/18/18 17:50			
p-Terphenyl-d14	76.8		30-130				8/18/18 16:03			
p-Terphenyl-d14	76.6		30-130				8/18/18 17:50			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-63/Sidewall

Sample ID: 18H0885-02

Start Date/Time: 8/16/2018 1:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:10:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.049	0.0037	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:31	TG
4,4'-DDT [1]	ND	0.049	0.0049	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:31	TG
Endosulfan I [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:31	TG
Endosulfan II [1]	ND	0.098	0.0037	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Decachlorobiphenyl [1]	68.4	30-150	
Decachlorobiphenyl [2]	73.5	30-150	
Tetrachloro-m-xylene [1]	63.4	30-150	
Tetrachloro-m-xylene [2]	58.9	30-150	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-63/Sidewall

Sample ID: 18H0885-02

Start Date/Time: 8/16/2018 1:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:10:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	8/18/18	8/19/18 15:20	BLM

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-8/Bottom

Sample ID: 18H0885-03

Start Date/Time: 8/16/2018 1:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:27:00PM

Sample Flags: RL-02

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
Ethylbenzene	6.3	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
Isopropylbenzene (Cumene)	ND	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
Toluene	8.0	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
1,2,4-Trimethylbenzene	11	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
m+p Xylene	12	9.9		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD
o-Xylene	5.4	5.0		mg/Kg dry	100		SW-846 8260C	8/20/18	8/20/18 12:00	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.4	70-130	
Toluene-d8	96.8	70-130	
4-Bromofluorobenzene	99.0	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-8/Bottom

Sample ID: 18H0885-03

Start Date/Time: 8/16/2018 1:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:27:00PM

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	5.4	0.42	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Acenaphthylene	49	8.3	2.8	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Anthracene	23	8.3	2.4	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Benzo(a)anthracene	8.0	0.42	0.11	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Benzo(a)pyrene	8.1	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Benzo(b)fluoranthene	6.1	0.42	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Benzo(g,h,i)perylene	3.5	0.42	0.18	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Benzo(k)fluoranthene	2.1	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Chrysene	6.8	0.42	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Dibenz(a,h)anthracene	0.61	0.42	0.26	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
Fluoranthene	25	8.3	2.7	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Fluorene	27	8.3	2.7	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Indeno(1,2,3-cd)pyrene	2.9	0.42	0.30	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:30	CDT
2-Methylnaphthalene	120	8.3	2.9	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Naphthalene	140	8.3	4.3	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Phenanthrene	88	8.3	4.3	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Pyrene	45	8.3	2.7	mg/Kg dry	20		SW-846 8270D	8/17/18	8/20/18 10:31	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	74.4		30-130				8/18/18 16:30			
Nitrobenzene-d5	92.6		30-130				8/20/18 10:31			
2-Fluorobiphenyl	67.8		30-130				8/18/18 16:30			
2-Fluorobiphenyl	103		30-130				8/20/18 10:31			
p-Terphenyl-d14	91.9		30-130				8/18/18 16:30			
p-Terphenyl-d14	118		30-130				8/20/18 10:31			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-8/Bottom

Sample ID: 18H0885-03

Start Date/Time: 8/16/2018 1:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:27:00PM

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.050	0.0037	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:58	TG
4,4'-DDT [1]	ND	0.050	0.0050	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:58	TG
Endosulfan I [1]	ND	0.062	0.0050	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:58	TG
Endosulfan II [1]	ND	0.099	0.0037	mg/Kg dry	10		SW-846 8081B	8/17/18	8/18/18 20:58	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.6		30-150				8/18/18 20:58			
Decachlorobiphenyl [2]	86.7		30-150				8/18/18 20:58			
Tetrachloro-m-xylene [1]	68.1		30-150				8/18/18 20:58			
Tetrachloro-m-xylene [2]	65.4		30-150				8/18/18 20:58			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-8/Bottom

Sample ID: 18H0885-03

Start Date/Time: 8/16/2018 1:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 1:27:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.9		% Wt	1		SM 2540G	8/18/18	8/19/18 15:20	BLM

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-9/Bottom

Sample ID: 18H0885-04

Start Date/Time: 8/16/2018 2:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:11:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
Ethylbenzene	0.065	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
Isopropylbenzene (Cumene)	ND	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
Toluene	ND	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
1,2,4-Trimethylbenzene	0.11	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
m+p Xylene	ND	0.097		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD
o-Xylene	ND	0.049		mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 12:26	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	91.8	70-130	
Toluene-d8	98.0	70-130	
4-Bromofluorobenzene	100	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-9/Bottom

Sample ID: 18H0885-04

Start Date/Time: 8/16/2018 2:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:11:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.0	0.41	0.12	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Acenaphthylene	0.49	0.41	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Anthracene	0.85	0.41	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Benzo(a)anthracene	0.51	0.41	0.11	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Benzo(a)pyrene	0.57	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Benzo(b)fluoranthene	0.48	0.41	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Benzo(g,h,i)perylene	0.32	0.41	0.18	mg/Kg dry	1	J	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Benzo(k)fluoranthene	0.15	0.41	0.13	mg/Kg dry	1	J, R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Chrysene	0.46	0.41	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Dibenz(a,h)anthracene	ND	0.41	0.25	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Fluoranthene	1.2	0.41	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Fluorene	0.79	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Indeno(1,2,3-cd)pyrene	ND	0.41	0.30	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
2-Methylnaphthalene	2.1	0.41	0.14	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Naphthalene	1.1	0.41	0.21	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Phenanthrene	2.6	0.41	0.21	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Pyrene	2.0	0.41	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 16:57	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	77.1		30-130				8/18/18 16:57			
2-Fluorobiphenyl	78.7		30-130				8/18/18 16:57			
p-Terphenyl-d14	94.8		30-130				8/18/18 16:57			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-9/Bottom

Sample ID: 18H0885-04

Start Date/Time: 8/16/2018 2:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:11:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:25	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:25	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:25	TG
Endosulfan II [1]	ND	0.0096	0.00036	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:25	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	56.3		30-150						8/18/18 21:25	
Decachlorobiphenyl [2]	55.5		30-150						8/18/18 21:25	
Tetrachloro-m-xylene [1]	54.5		30-150						8/18/18 21:25	
Tetrachloro-m-xylene [2]	49.0		30-150						8/18/18 21:25	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-9/Bottom

Sample ID: 18H0885-04

Start Date/Time: 8/16/2018 2:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:11:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.4		% Wt	1		SM 2540G	8/18/18	8/19/18 15:20	BLM

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-140/Bottom

Sample ID: 18H0885-05

Start Date/Time: 8/16/2018 2:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 12:44	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 12:44	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 12:44	MF
Toluene	0.00064	0.0014	0.00055	mg/Kg dry	1	J	SW-846 8260C	8/19/18	8/19/18 12:44	MF
1,2,4-Trimethylbenzene	0.00091	0.0014	0.00055	mg/Kg dry	1	J	SW-846 8260C	8/19/18	8/19/18 12:44	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 12:44	MF
o-Xylene	0.00049	0.0014	0.00048	mg/Kg dry	1	J	SW-846 8260C	8/19/18	8/19/18 12:44	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 12:44	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	107		70-130				8/19/18 12:44			
Toluene-d8	102		70-130				8/19/18 12:44			
4-Bromofluorobenzene	103		70-130				8/19/18 12:44			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-140/Bottom

Sample ID: 18H0885-05

Start Date/Time: 8/16/2018 2:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:50:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Acenaphthylene	ND	0.41	0.14	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Anthracene	ND	0.41	0.12	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Benzo(a)anthracene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Benzo(a)pyrene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Benzo(b)fluoranthene	ND	0.41	0.11	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Benzo(g,h,i)perylene	ND	0.41	0.18	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Benzo(k)fluoranthene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Chrysene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Dibenz(a,h)anthracene	ND	0.41	0.25	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Fluoranthene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Fluorene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Indeno(1,2,3-cd)pyrene	ND	0.41	0.29	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
2-Methylnaphthalene	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Naphthalene	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Phenanthrene	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Pyrene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 17:24	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		73.6	30-130						8/18/18 17:24	
2-Fluorobiphenyl		75.1	30-130						8/18/18 17:24	
p-Terphenyl-d14		86.2	30-130						8/18/18 17:24	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-140/Bottom

Sample ID: 18H0885-05

Start Date/Time: 8/16/2018 2:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:50:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:52	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:52	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:52	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 21:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.1		30-150				8/18/18 21:52			
Decachlorobiphenyl [2]	79.1		30-150				8/18/18 21:52			
Tetrachloro-m-xylene [1]	78.5		30-150				8/18/18 21:52			
Tetrachloro-m-xylene [2]	73.9		30-150				8/18/18 21:52			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0885

Date Received: 8/17/2018

Field Sample #: OU2-SED-140/Bottom

Sample ID: 18H0885-05

Start Date/Time: 8/16/2018 2:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:50:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	8/18/18	8/19/18 15:20	BLM

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0885-01 [OU2-SED-64/Sidewall]	B210593	08/18/18
18H0885-02 [OU2-SED-63/Sidewall]	B210593	08/18/18
18H0885-03 [OU2-SED-8/Bottom]	B210593	08/18/18
18H0885-04 [OU2-SED-9/Bottom]	B210593	08/18/18
18H0885-05 [OU2-SED-140/Bottom]	B210593	08/18/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0885-01 [OU2-SED-64/Sidewall]	B210574	10.5	10.0	08/17/18
18H0885-02 [OU2-SED-63/Sidewall]	B210574	10.4	10.0	08/17/18
18H0885-03 [OU2-SED-8/Bottom]	B210574	10.1	10.0	08/17/18
18H0885-04 [OU2-SED-9/Bottom]	B210574	10.5	10.0	08/17/18
18H0885-05 [OU2-SED-140/Bottom]	B210574	10.3	10.0	08/17/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0885-05 [OU2-SED-140/Bottom]	B210603	9.00	10.0	08/19/18

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H0885-02 [OU2-SED-63/Sidewall]	B210618	9.01	6.80	0.05	50	08/20/18
18H0885-03 [OU2-SED-8/Bottom]	B210618	8.58	6.81	0.01	50	08/20/18
18H0885-04 [OU2-SED-9/Bottom]	B210618	8.79	6.77	1	50	08/20/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0885-01 [OU2-SED-64/Sidewall]	B210628	8.49	10.0	08/20/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0885-01 [OU2-SED-64/Sidewall]	B210576	15.3	1.00	08/17/18
18H0885-02 [OU2-SED-63/Sidewall]	B210576	15.4	1.00	08/17/18
18H0885-02RE1 [OU2-SED-63/Sidewall]	B210576	15.4	1.00	08/17/18
18H0885-03 [OU2-SED-8/Bottom]	B210576	15.3	1.00	08/17/18
18H0885-03RE1 [OU2-SED-8/Bottom]	B210576	15.3	1.00	08/17/18
18H0885-04 [OU2-SED-9/Bottom]	B210576	15.5	1.00	08/17/18
18H0885-05 [OU2-SED-140/Bottom]	B210576	15.4	1.00	08/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210603 - SW-846 5035

Blank (B210603-BLK1)

Prepared & Analyzed: 08/19/18

Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							

Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.7	70-130			

LCS (B210603-BS1)

Prepared & Analyzed: 08/19/18

Benzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Toluene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.4	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

LCS Dup (B210603-BSD1)

Prepared & Analyzed: 08/19/18

Benzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	1.96	25	
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	0.933	25	
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.75	25	
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	5.31	25	
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.10	25	
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130	0.371	25	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	1.62	25	

Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0520		mg/Kg wet	0.0500		104	70-130			

Batch B210618 - SW-846 5035/5030B

Blank (B210618-BLK1)

Prepared & Analyzed: 08/20/18

Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							

Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/Kg wet	0.0250		92.1	70-130			
Surrogate: Toluene-d8	0.0241		mg/Kg wet	0.0250		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0243		mg/Kg wet	0.0250		97.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210618 - SW-846 5035/5030B

LCS (B210618-BS1) Prepared & Analyzed: 08/20/18										
Benzene	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
Ethylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
Isopropylbenzene (Cumene)	0.0129	0.0011	mg/Kg wet	0.0113		113	70-130			
Toluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
m+p Xylene	0.0237	0.0023	mg/Kg wet	0.0227		104	70-130			
o-Xylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0260		mg/Kg wet	0.0283		91.6	70-130			
Surrogate: Toluene-d8	0.0277		mg/Kg wet	0.0283		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0276		mg/Kg wet	0.0283		97.6	70-130			

LCS Dup (B210618-BS1) Prepared & Analyzed: 08/20/18										
Benzene	0.0107	0.0011	mg/Kg wet	0.0113		94.6	70-130	2.20	25	
Ethylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	0.185	25	
Isopropylbenzene (Cumene)	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130	1.69	25	
Toluene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130	1.91	25	
1,2,4-Trimethylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.1	70-130	3.72	25	
m+p Xylene	0.0239	0.0023	mg/Kg wet	0.0227		106	70-130	1.19	25	
o-Xylene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	1.55	25	
Surrogate: 1,2-Dichloroethane-d4	0.0259		mg/Kg wet	0.0283		91.3	70-130			
Surrogate: Toluene-d8	0.0278		mg/Kg wet	0.0283		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0282		mg/Kg wet	0.0283		99.6	70-130			

Batch B210628 - SW-846 5035

Blank (B210628-BLK1) Prepared & Analyzed: 08/20/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/Kg wet	0.0500		102	70-130			

LCS (B210628-BS1) Prepared & Analyzed: 08/20/18										
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,2,4-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
m+p Xylene	0.0386	0.0040	mg/Kg wet	0.0400		96.6	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0493		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210628 - SW-846 5035

LCS Dup (B210628-BSD1)

Prepared & Analyzed: 08/20/18

Benzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	0.312	25	
Ethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.70	25	
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	3.78	25	
Toluene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.33	25	
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	0.850	25	
m+p Xylene	0.0393	0.0040	mg/Kg wet	0.0400		98.2	70-130	1.75	25	
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	2.66	25	
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210576 - SW-846 3546										
Blank (B210576-BLK1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							R-05
Anthracene	ND	0.17	mg/Kg wet							R-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							R-05
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							R-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							R-05
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							R-05
Fluorene	ND	0.17	mg/Kg wet							R-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							R-05
Surrogate: Nitrobenzene-d5	2.19		mg/Kg wet	3.33		65.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	3.11		mg/Kg wet	3.33		93.4	30-130			
LCS (B210576-BS1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
Acenaphthene	0.689	0.17	mg/Kg wet	1.67		41.3	40-140			
Acenaphthylene	0.702	0.17	mg/Kg wet	1.67		42.1	40-140			R-05
Anthracene	0.809	0.17	mg/Kg wet	1.67		48.6	40-140			R-05
Benzo(a)anthracene	0.767	0.17	mg/Kg wet	1.67		46.0	40-140			
Benzo(a)pyrene	0.786	0.17	mg/Kg wet	1.67		47.1	40-140			R-05
Benzo(b)fluoranthene	0.785	0.17	mg/Kg wet	1.67		47.1	40-140			R-05
Benzo(g,h,i)perylene	0.858	0.17	mg/Kg wet	1.67		51.5	40-140			
Benzo(k)fluoranthene	0.763	0.17	mg/Kg wet	1.67		45.8	40-140			R-05
Chrysene	0.781	0.17	mg/Kg wet	1.67		46.9	40-140			
Dibenz(a,h)anthracene	0.847	0.17	mg/Kg wet	1.67		50.8	40-140			
Fluoranthene	0.762	0.17	mg/Kg wet	1.67		45.7	40-140			R-05
Fluorene	0.702	0.17	mg/Kg wet	1.67		42.1	40-140			R-05
Indeno(1,2,3-cd)pyrene	0.793	0.17	mg/Kg wet	1.67		47.6	40-140			
2-Methylnaphthalene	0.819	0.17	mg/Kg wet	1.67		49.1	40-140			
Naphthalene	0.803	0.17	mg/Kg wet	1.67		48.2	40-140			
Phenanthrene	0.811	0.17	mg/Kg wet	1.67		48.7	40-140			
Pyrene	0.730	0.17	mg/Kg wet	1.67		43.8	40-140			R-05
Surrogate: Nitrobenzene-d5	1.71		mg/Kg wet	3.33		51.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.72		mg/Kg wet	3.33		51.6	30-130			
Surrogate: p-Terphenyl-d14	1.88		mg/Kg wet	3.33		56.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210576 - SW-846 3546										
LCS Dup (B210576-BSD1)										
					Prepared: 08/17/18 Analyzed: 08/18/18					
Acenaphthene	0.924	0.17	mg/Kg wet	1.67		55.5	40-140	29.2	30	
Acenaphthylene	0.956	0.17	mg/Kg wet	1.67		57.4	40-140	30.6	*	30 R-05
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	31.0	*	30 R-05
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140	28.9	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	32.1	*	30 R-05
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	35.0	*	30 R-05
Benzo(g,h,i)perylene	0.859	0.17	mg/Kg wet	1.67		51.5	40-140	0.0776	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	39.5	*	30 R-05
Chrysene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	27.6	30	
Dibenz(a,h)anthracene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140	4.39	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	38.6	*	30 R-05
Fluorene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140	31.9	*	30 R-05
Indeno(1,2,3-cd)pyrene	0.875	0.17	mg/Kg wet	1.67		52.5	40-140	9.79	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	25.9	30	
Naphthalene	0.994	0.17	mg/Kg wet	1.67		59.6	40-140	21.3	30	
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	29.3	30	
Pyrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	30.3	*	30 R-05
Surrogate: Nitrobenzene-d5	2.08		mg/Kg wet	3.33		62.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: p-Terphenyl-d14	2.47		mg/Kg wet	3.33		74.2	30-130			

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

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210574 - SW-846 3546										
Blank (B210574-BLK1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
LCS (B210574-BS1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
4,4'-DDE	0.068	0.0040	mg/Kg wet	0.100		68.5	40-140			
4,4'-DDE [2C]	0.070	0.0040	mg/Kg wet	0.100		69.7	40-140			
4,4'-DDT	0.067	0.0040	mg/Kg wet	0.100		67.3	40-140			
4,4'-DDT [2C]	0.069	0.0040	mg/Kg wet	0.100		69.4	40-140			
Endosulfan I	0.063	0.0050	mg/Kg wet	0.100		63.4	40-140			
Endosulfan I [2C]	0.065	0.0050	mg/Kg wet	0.100		65.3	40-140			
Endosulfan II	0.065	0.0080	mg/Kg wet	0.100		64.8	40-140			
Endosulfan II [2C]	0.066	0.0080	mg/Kg wet	0.100		66.0	40-140			
Surrogate: Decachlorobiphenyl	0.128		mg/Kg wet	0.200		63.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.125		mg/Kg wet	0.200		62.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.135		mg/Kg wet	0.200		67.3	30-150			
LCS Dup (B210574-BSD1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
4,4'-DDE	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	17.0	30	
4,4'-DDE [2C]	0.083	0.0040	mg/Kg wet	0.100		82.7	40-140	17.1	30	
4,4'-DDT	0.081	0.0040	mg/Kg wet	0.100		80.6	40-140	17.9	30	
4,4'-DDT [2C]	0.083	0.0040	mg/Kg wet	0.100		83.3	40-140	18.2	30	
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140	16.6	30	
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		77.6	40-140	17.2	30	
Endosulfan II	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	17.2	30	
Endosulfan II [2C]	0.079	0.0080	mg/Kg wet	0.100		78.7	40-140	17.6	30	
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B210593 - % Solids

Duplicate (B210593-DUP4)

Source: 18H0885-01

Prepared: 08/18/18 Analyzed: 08/19/18

% Solids	76.3		% Wt		75.7			0.773	20	
----------	------	--	------	--	------	--	--	-------	----	--

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

BREAKDOWN REPORT

Lab Sample ID: S026384-PEM1 **Analyzed:** 08/18/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.61
Endrin [1] 2.44

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.58
Endrin [2] 2.45

BREAKDOWN REPORT

Lab Sample ID: S026384-PEM2 **Analyzed:** 08/18/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.59
Endrin [1] 2.08

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.59
Endrin [2] 2.12

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210574-BS1 Date(s) Analyzed 08/18/2018 08/18/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.902	6.873	6.933	0.068	
	2	6.987	6.957	7.017	0.070	1.4
4,4'-DDT	1	7.561	7.530	7.590	0.067	
	2	7.667	7.637	7.697	0.069	2.9
Endosulfan I	1	6.948	6.918	6.978	0.063	
	2	6.902	6.871	6.931	0.065	3.1
Endosulfan II	1	7.465	7.435	7.495	0.065	
	2	7.495	7.465	7.525	0.066	1.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B210574-BSD1 Date(s) Analyzed 08/18/2018 08/18/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.903	6.873	6.933	0.081	
	2	6.987	6.957	7.017	0.083	2.4
4,4'-DDT	1	7.561	7.530	7.590	0.081	
	2	7.667	7.637	7.697	0.083	2.4
Endosulfan I	1	6.948	6.918	6.978	0.075	
	2	6.902	6.871	6.931	0.078	3.9
Endosulfan II	1	7.465	7.435	7.495	0.077	
	2	7.495	7.465	7.525	0.079	2.6

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-02	Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1840885

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105
Project Name: NYDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number: Matthew Warren
Project Manager:

Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Kyle Jones

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: CAT B - Equis
 CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU2-SED-64/Sidewall	8/16/2018 12:47	8/16/2018 12:52	X	S	L	X
02	OU2-SED-63/Sidewall	8/16/2018 13:05	8/16/2018 13:10	X	S	L	X
03	OU2-SED-8/ Bottom	8/16/2018 13:22	8/16/2018 13:27	X			X
04	OU2-SED-9/ Bottom	8/16/2018 14:06	8/16/2018 14:11	X			X
05	OU2-SED-140/ Bottom	8/16/2018 14:45	8/16/2018 14:50	X			X

of Containers
 2 Preservation Code
 3 Container Code

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 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: LRI Personnel - Attached

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

Deliverables
 Enhanced Data Package
 NYSDEC Equis EDD
 Equis (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

NY TOGS
 NY CP-51

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

Other: MELAC and AHA, etc. Assembled

Only report analytes shown on Table 4-2 (Attached for reference).

Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/17/18 8:50
<i>[Signature]</i>	8/17/18 8:50
<i>[Signature]</i>	8/17/18 13:00
<i>[Signature]</i>	8/17/18 13:00
<i>[Signature]</i>	8/17/18 14:15
<i>[Signature]</i>	8/17/18 14:15

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation
 Received By RLE Date 8/17/18 Time MIS
 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 - 3.6°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? same
 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? F
 Do all samples have the proper pH? _____ Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz (Amb)Clear
Meoh-	5	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	10	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:

September 10, 2018

Matthew Warren
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Sed
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0254

Enclosed are results of analyses for samples received by the laboratory on September 7, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Matthew Warren

REPORT DATE: 9/10/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1810254

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

PROJECT LOCATION: OU_2 Sed

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-74-Sidewall	1810254-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-15-Bottom	1810254-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-14-Bottom	1810254-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-73-Sidewall	1810254-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-75-Sidewall	1810254-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-16-Bottom	1810254-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-76-Sidewall	1810254-07	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-78-Sidewall	1810254-08	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-21-Bottom	1810254-09	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-19-Bottom	1810254-10	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-74-Sidewall

Sample ID: 1810254-01

Start Date/Time: 9/6/2018 3:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:16:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
Toluene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:15	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		91.6	70-130					9/10/18	8:15	
Toluene-d8		101	70-130					9/10/18	8:15	
4-Bromofluorobenzene		106	70-130					9/10/18	8:15	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-74-Sidewall

Sample ID: 1810254-01

Start Date/Time: 9/6/2018 3:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:16:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Acenaphthylene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Benzo(b)fluoranthene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Fluorene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
2-Methylnaphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Phenanthrene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 17:05	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		51.1	30-130						9/8/18 17:05	
2-Fluorobiphenyl		66.4	30-130						9/8/18 17:05	
p-Terphenyl-d14		82.4	30-130						9/8/18 17:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-74-Sidewall

Sample ID: 1810254-01

Start Date/Time: 9/6/2018 3:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:16:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	9/7/18	9/8/18 23:57	TG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	9/7/18	9/8/18 23:57	TG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	9/7/18	9/8/18 23:57	TG
Endosulfan II [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	9/7/18	9/8/18 23:57	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	98.8		30-150						9/8/18 23:57	
Decachlorobiphenyl [2]	90.5		30-150						9/8/18 23:57	
Tetrachloro-m-xylene [1]	96.5		30-150						9/8/18 23:57	
Tetrachloro-m-xylene [2]	99.7		30-150						9/8/18 23:57	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-74-Sidewall

Sample ID: 1810254-01

Start Date/Time: 9/6/2018 3:08:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:16:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-15-Bottom

Sample ID: 1810254-02

Start Date/Time: 9/6/2018 3:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:28:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
Ethylbenzene	0.00063	0.0014	0.00057	mg/Kg dry	1	J	SW-846 8260C	9/10/18	9/10/18 8:43	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
1,2,4-Trimethylbenzene	0.00071	0.0014	0.00057	mg/Kg dry	1	J	SW-846 8260C	9/10/18	9/10/18 8:43	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 8:43	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.6		70-130						9/10/18 8:43	
Toluene-d8	102		70-130						9/10/18 8:43	
4-Bromofluorobenzene	109		70-130						9/10/18 8:43	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-15-Bottom

Sample ID: 1810254-02

Start Date/Time: 9/6/2018 3:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:28:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 18:44	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		65.6	30-130						9/8/18 18:44	
2-Fluorobiphenyl		69.3	30-130						9/8/18 18:44	
p-Terphenyl-d14		84.3	30-130						9/8/18 18:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-15-Bottom

Sample ID: 1810254-02

Start Date/Time: 9/6/2018 3:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:28:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0051	0.00038	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:24	TG
4,4'-DDT [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:24	TG
Endosulfan I [1]	ND	0.0063	0.00051	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:24	TG
Endosulfan II [1]	ND	0.010	0.00038	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:24	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.1		30-150						9/9/18 0:24	
Decachlorobiphenyl [2]	84.2		30-150						9/9/18 0:24	
Tetrachloro-m-xylene [1]	93.2		30-150						9/9/18 0:24	
Tetrachloro-m-xylene [2]	93.9		30-150						9/9/18 0:24	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-15-Bottom

Sample ID: 1810254-02

Start Date/Time: 9/6/2018 3:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:28:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-14-Bottom

Sample ID: 1810254-03

Start Date/Time: 9/6/2018 3:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:36:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:10	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		91.0	70-130						9/10/18 9:10	
Toluene-d8		96.4	70-130						9/10/18 9:10	
4-Bromofluorobenzene		105	70-130						9/10/18 9:10	

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

Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-14-Bottom

Sample ID: 1810254-03

Start Date/Time: 9/6/2018 3:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:36:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Pyrene	0.096	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	9/7/18	9/8/18 19:09	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	49.8		30-130				9/8/18 19:09			
2-Fluorobiphenyl	64.8		30-130				9/8/18 19:09			
p-Terphenyl-d14	83.3		30-130				9/8/18 19:09			

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-14-Bottom

Sample ID: 1810254-03

Start Date/Time: 9/6/2018 3:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:36:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0048	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:50	TG
4,4'-DDT [1]	ND	0.0048	0.00048	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:50	TG
Endosulfan I [1]	ND	0.0060	0.00048	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:50	TG
Endosulfan II [1]	ND	0.0095	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 0:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.4		30-150						9/9/18 0:50	
Decachlorobiphenyl [2]	85.9		30-150						9/9/18 0:50	
Tetrachloro-m-xylene [1]	91.1		30-150						9/9/18 0:50	
Tetrachloro-m-xylene [2]	89.1		30-150						9/9/18 0:50	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-14-Bottom

Sample ID: 1810254-03

Start Date/Time: 9/6/2018 3:30:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:36:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-73-Sidewall

Sample ID: 1810254-04

Start Date/Time: 9/6/2018 3:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:48:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
Ethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
Toluene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
1,2,4-Trimethylbenzene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
m+p Xylene	ND	0.0035	0.0015	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
o-Xylene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
Xylenes (total)	ND	0.0052		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 9:37	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		97.2	70-130						9/10/18 9:37	
Toluene-d8		99.8	70-130						9/10/18 9:37	
4-Bromofluorobenzene		103	70-130						9/10/18 9:37	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-73-Sidewall

Sample ID: 1810254-04

Start Date/Time: 9/6/2018 3:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:48:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Acenaphthylene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Anthracene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Benzo(a)anthracene	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Benzo(a)pyrene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Benzo(g,h,i)perylene	ND	0.22	0.095	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Benzo(k)fluoranthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Chrysene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Fluoranthene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
2-Methylnaphthalene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:33	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		48.1	30-130						9/8/18 19:33	
2-Fluorobiphenyl		47.7	30-130						9/8/18 19:33	
p-Terphenyl-d14		47.9	30-130						9/8/18 19:33	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-73-Sidewall

Sample ID: 1810254-04

Start Date/Time: 9/6/2018 3:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:48:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:17	TG
4,4'-DDT [1]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:17	TG
Endosulfan I [1]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:17	TG
Endosulfan II [1]	ND	0.010	0.00037	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:17	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.9		30-150					9/9/18	1:17	
Decachlorobiphenyl [2]	78.0		30-150					9/9/18	1:17	
Tetrachloro-m-xylene [1]	91.0		30-150					9/9/18	1:17	
Tetrachloro-m-xylene [2]	92.5		30-150					9/9/18	1:17	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-73-Sidewall

Sample ID: 1810254-04

Start Date/Time: 9/6/2018 3:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:48:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-75-Sidewall

Sample ID: 1810254-05

Start Date/Time: 9/6/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:51:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
Toluene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:06	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		88.1	70-130						9/10/18 10:06	
Toluene-d8		100	70-130						9/10/18 10:06	
4-Bromofluorobenzene		99.3	70-130						9/10/18 10:06	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-75-Sidewall

Sample ID: 1810254-05

Start Date/Time: 9/6/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:51:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Benzo(g,h,i)perylene	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Naphthalene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 19:57	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		46.4	30-130						9/8/18 19:57	
2-Fluorobiphenyl		57.6	30-130						9/8/18 19:57	
p-Terphenyl-d14		66.4	30-130						9/8/18 19:57	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-75-Sidewall

Sample ID: 1810254-05

Start Date/Time: 9/6/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:51:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:44	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:44	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:44	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 1:44	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	98.5		30-150						9/9/18 1:44	
Decachlorobiphenyl [2]	86.7		30-150						9/9/18 1:44	
Tetrachloro-m-xylene [1]	97.7		30-150						9/9/18 1:44	
Tetrachloro-m-xylene [2]	99.9		30-150						9/9/18 1:44	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-75-Sidewall

Sample ID: 1810254-05

Start Date/Time: 9/6/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 3:51:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-16-Bottom

Sample ID: 1810254-06

Start Date/Time: 9/6/2018 3:55:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:02:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 10:34	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		99.5	70-130					9/10/18	10:34	
Toluene-d8		100	70-130					9/10/18	10:34	
4-Bromofluorobenzene		104	70-130					9/10/18	10:34	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-16-Bottom

Sample ID: 1810254-06

Start Date/Time: 9/6/2018 3:55:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:02:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:22	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		55.4	30-130						9/8/18 20:22	
2-Fluorobiphenyl		59.5	30-130						9/8/18 20:22	
p-Terphenyl-d14		72.6	30-130						9/8/18 20:22	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-16-Bottom

Sample ID: 1810254-06

Start Date/Time: 9/6/2018 3:55:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:02:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0049	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:10	TG
4,4'-DDT [1]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:10	TG
Endosulfan I [1]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:10	TG
Endosulfan II [1]	ND	0.0097	0.00036	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:10	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	101		30-150						9/9/18 2:10	
Decachlorobiphenyl [2]	89.2		30-150						9/9/18 2:10	
Tetrachloro-m-xylene [1]	97.9		30-150						9/9/18 2:10	
Tetrachloro-m-xylene [2]	99.3		30-150						9/9/18 2:10	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-16-Bottom

Sample ID: 1810254-06

Start Date/Time: 9/6/2018 3:55:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:02:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-76-Sidewall

Sample ID: 1810254-07

Start Date/Time: 9/6/2018 4:04:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
Toluene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:02	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		89.8	70-130					9/10/18	11:02	
Toluene-d8		93.9	70-130					9/10/18	11:02	
4-Bromofluorobenzene		102	70-130					9/10/18	11:02	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-76-Sidewall

Sample ID: 1810254-07

Start Date/Time: 9/6/2018 4:04:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 20:46	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.5	30-130						9/8/18 20:46	
2-Fluorobiphenyl		57.3	30-130						9/8/18 20:46	
p-Terphenyl-d14		77.9	30-130						9/8/18 20:46	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-76-Sidewall

Sample ID: 1810254-07

Start Date/Time: 9/6/2018 4:04:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:37	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:37	TG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:37	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 2:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.4		30-150						9/9/18 2:37	
Decachlorobiphenyl [2]	87.7		30-150						9/9/18 2:37	
Tetrachloro-m-xylene [1]	97.6		30-150						9/9/18 2:37	
Tetrachloro-m-xylene [2]	99.3		30-150						9/9/18 2:37	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-76-Sidewall

Sample ID: 1810254-07

Start Date/Time: 9/6/2018 4:04:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:10:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-78-Sidewall

Sample ID: 1810254-08

Start Date/Time: 9/6/2018 4:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
Toluene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:31	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		99.8	70-130					9/10/18	11:31	
Toluene-d8		103	70-130					9/10/18	11:31	
4-Bromofluorobenzene		105	70-130					9/10/18	11:31	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-78-Sidewall

Sample ID: 1810254-08

Start Date/Time: 9/6/2018 4:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Dibenz(a,h)anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:10	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		69.4	30-130						9/8/18 21:10	
2-Fluorobiphenyl		71.8	30-130						9/8/18 21:10	
p-Terphenyl-d14		82.7	30-130						9/8/18 21:10	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-78-Sidewall

Sample ID: 1810254-08

Start Date/Time: 9/6/2018 4:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:19:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:11	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:11	TG
Endosulfan I [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:11	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:11	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	105		30-150						9/9/18 6:11	
Decachlorobiphenyl [2]	91.5		30-150						9/9/18 6:11	
Tetrachloro-m-xylene [1]	96.6		30-150						9/9/18 6:11	
Tetrachloro-m-xylene [2]	98.9		30-150						9/9/18 6:11	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-78-Sidewall

Sample ID: 1810254-08

Start Date/Time: 9/6/2018 4:12:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:19:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-21-Bottom

Sample ID: 1810254-09

Start Date/Time: 9/6/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:35:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
Ethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
Toluene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
o-Xylene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 11:59	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		90.9	70-130					9/10/18	11:59	
Toluene-d8		93.2	70-130					9/10/18	11:59	
4-Bromofluorobenzene		102	70-130					9/10/18	11:59	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-21-Bottom

Sample ID: 1810254-09

Start Date/Time: 9/6/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:35:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Anthracene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Fluorene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:35	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		74.1	30-130						9/8/18 21:35	
2-Fluorobiphenyl		74.8	30-130						9/8/18 21:35	
p-Terphenyl-d14		83.1	30-130						9/8/18 21:35	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-21-Bottom

Sample ID: 1810254-09

Start Date/Time: 9/6/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:35:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:38	TG
4,4'-DDT [1]	ND	0.0045	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:38	TG
Endosulfan I [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:38	TG
Endosulfan II [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 6:38	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	106		30-150						9/9/18 6:38	
Decachlorobiphenyl [2]	93.1		30-150						9/9/18 6:38	
Tetrachloro-m-xylene [1]	97.2		30-150						9/9/18 6:38	
Tetrachloro-m-xylene [2]	99.4		30-150						9/9/18 6:38	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-21-Bottom

Sample ID: 1810254-09

Start Date/Time: 9/6/2018 4:20:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:35:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	9/10/18	9/10/18 11:27	DMP

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-19-Bottom

Sample ID: 1810254-10

Start Date/Time: 9/6/2018 4:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:41:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/10/18	9/10/18 12:28	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		90.2	70-130						9/10/18 12:28	
Toluene-d8		98.0	70-130						9/10/18 12:28	
4-Bromofluorobenzene		104	70-130						9/10/18 12:28	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-19-Bottom

Sample ID: 1810254-10

Start Date/Time: 9/6/2018 4:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:41:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/7/18	9/8/18 21:59	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		69.7	30-130						9/8/18 21:59	
2-Fluorobiphenyl		71.4	30-130						9/8/18 21:59	
p-Terphenyl-d14		73.4	30-130						9/8/18 21:59	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-19-Bottom

Sample ID: 1810254-10

Start Date/Time: 9/6/2018 4:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:41:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 7:05	TG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 7:05	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 7:05	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	9/7/18	9/9/18 7:05	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	109		30-150					9/9/18	7:05	
Decachlorobiphenyl [2]	97.3		30-150					9/9/18	7:05	
Tetrachloro-m-xylene [1]	101		30-150					9/9/18	7:05	
Tetrachloro-m-xylene [2]	104		30-150					9/9/18	7:05	

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Project Location: OU_2 Sed

Sample Description:

Work Order: 1810254

Date Received: 9/7/2018

Field Sample #: OU2-SED-19-Bottom

Sample ID: 1810254-10

Start Date/Time: 9/6/2018 4:37:00PM

Sample Matrix: Soil

Stop Date/Time: 9/6/2018 4:41:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	9/10/18	9/10/18 11:28	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0254-01 [OU2-SED-74-Sidewall]	B212053	09/10/18
18I0254-02 [OU2-SED-15-Bottom]	B212053	09/10/18
18I0254-03 [OU2-SED-14-Bottom]	B212053	09/10/18
18I0254-04 [OU2-SED-73-Sidewall]	B212053	09/10/18
18I0254-05 [OU2-SED-75-Sidewall]	B212053	09/10/18
18I0254-06 [OU2-SED-16-Bottom]	B212053	09/10/18
18I0254-07 [OU2-SED-76-Sidewall]	B212053	09/10/18
18I0254-08 [OU2-SED-78-Sidewall]	B212053	09/10/18
18I0254-09 [OU2-SED-21-Bottom]	B212053	09/10/18
18I0254-10 [OU2-SED-19-Bottom]	B212053	09/10/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0254-01 [OU2-SED-74-Sidewall]	B212013	10.1	10.0	09/07/18
18I0254-02 [OU2-SED-15-Bottom]	B212013	10.0	10.0	09/07/18
18I0254-03 [OU2-SED-14-Bottom]	B212013	10.4	10.0	09/07/18
18I0254-04 [OU2-SED-73-Sidewall]	B212013	10.3	10.0	09/07/18
18I0254-05 [OU2-SED-75-Sidewall]	B212013	10.0	10.0	09/07/18
18I0254-06 [OU2-SED-16-Bottom]	B212013	10.1	10.0	09/07/18
18I0254-07 [OU2-SED-76-Sidewall]	B212013	10.8	10.0	09/07/18
18I0254-08 [OU2-SED-78-Sidewall]	B212013	10.7	10.0	09/07/18
18I0254-09 [OU2-SED-21-Bottom]	B212013	10.4	10.0	09/07/18
18I0254-10 [OU2-SED-19-Bottom]	B212013	10.4	10.0	09/07/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0254-01 [OU2-SED-74-Sidewall]	B212074	7.58	10.0	09/10/18
18I0254-02 [OU2-SED-15-Bottom]	B212074	8.89	10.0	09/10/18
18I0254-03 [OU2-SED-14-Bottom]	B212074	9.04	10.0	09/10/18
18I0254-04 [OU2-SED-73-Sidewall]	B212074	7.43	10.0	09/10/18
18I0254-05 [OU2-SED-75-Sidewall]	B212074	8.00	10.0	09/10/18
18I0254-06 [OU2-SED-16-Bottom]	B212074	8.89	10.0	09/10/18
18I0254-07 [OU2-SED-76-Sidewall]	B212074	8.89	10.0	09/10/18
18I0254-08 [OU2-SED-78-Sidewall]	B212074	8.44	10.0	09/10/18
18I0254-09 [OU2-SED-21-Bottom]	B212074	9.13	10.0	09/10/18
18I0254-10 [OU2-SED-19-Bottom]	B212074	8.51	10.0	09/10/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0254-01 [OU2-SED-74-Sidewall]	B212012	30.3	1.00	09/07/18
18I0254-02 [OU2-SED-15-Bottom]	B212012	30.3	1.00	09/07/18
18I0254-03 [OU2-SED-14-Bottom]	B212012	30.5	1.00	09/07/18
18I0254-04 [OU2-SED-73-Sidewall]	B212012	30.4	1.00	09/07/18
18I0254-05 [OU2-SED-75-Sidewall]	B212012	30.2	1.00	09/07/18
18I0254-06 [OU2-SED-16-Bottom]	B212012	30.2	1.00	09/07/18
18I0254-07 [OU2-SED-76-Sidewall]	B212012	30.3	1.00	09/07/18
18I0254-08 [OU2-SED-78-Sidewall]	B212012	30.3	1.00	09/07/18
18I0254-09 [OU2-SED-21-Bottom]	B212012	30.7	1.00	09/07/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0254-10 [OU2-SED-19-Bottom]	B212012	30.1	1.00	09/07/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212074 - SW-846 5035										
Blank (B212074-BLK1)										
Prepared & Analyzed: 09/10/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0447		mg/Kg wet	0.0500		89.4	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			
LCS (B212074-BS1)										
Prepared & Analyzed: 09/10/18										
Benzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Ethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Isopropylbenzene (Cumene)	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130			
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
m+p Xylene	0.0416	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0452		mg/Kg wet	0.0500		90.4	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0535		mg/Kg wet	0.0500		107	70-130			
LCS Dup (B212074-BSD1)										
Prepared & Analyzed: 09/10/18										
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.83	25	
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.10	25	
Isopropylbenzene (Cumene)	0.0250	0.0020	mg/Kg wet	0.0200		125	70-130	5.86	25	
Toluene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	1.77	25	
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	0.417	25	
m+p Xylene	0.0432	0.0040	mg/Kg wet	0.0400		108	70-130	3.63	25	
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.287	25	
Surrogate: 1,2-Dichloroethane-d4	0.0444		mg/Kg wet	0.0500		88.8	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0538		mg/Kg wet	0.0500		108	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212012 - SW-846 3546

Blank (B212012-BLK1)

Prepared: 09/07/18 Analyzed: 09/08/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.09		mg/Kg wet	3.33		62.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.24		mg/Kg wet	3.33		67.1	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.33		91.0	30-130			

LCS (B212012-BS1)

Prepared: 09/07/18 Analyzed: 09/08/18

Acenaphthene	0.900	0.17	mg/Kg wet	1.67		54.0	40-140			
Acenaphthylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Anthracene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140			
Benzo(a)anthracene	0.974	0.17	mg/Kg wet	1.67		58.4	40-140			
Benzo(a)pyrene	0.966	0.17	mg/Kg wet	1.67		58.0	40-140			
Benzo(b)fluoranthene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(g,h,i)perylene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Benzo(k)fluoranthene	0.958	0.17	mg/Kg wet	1.67		57.5	40-140			
Chrysene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	0.936	0.17	mg/Kg wet	1.67		56.1	40-140			
Fluorene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Indeno(1,2,3-cd)pyrene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140			
2-Methylnaphthalene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140			
Naphthalene	0.861	0.17	mg/Kg wet	1.67		51.6	40-140			
Phenanthrene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140			
Pyrene	0.975	0.17	mg/Kg wet	1.67		58.5	40-140			
Surrogate: Nitrobenzene-d5	1.88		mg/Kg wet	3.33		56.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.0	30-130			
Surrogate: p-Terphenyl-d14	2.22		mg/Kg wet	3.33		66.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212012 - SW-846 3546										
LCS Dup (B212012-BSD1)										
					Prepared: 09/07/18 Analyzed: 09/08/18					
Acenaphthene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140	3.74	30	
Acenaphthylene	0.952	0.17	mg/Kg wet	1.67		57.1	40-140	2.73	30	
Anthracene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140	4.82	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	4.68	30	
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	2.76	30	
Benzo(b)fluoranthene	0.973	0.17	mg/Kg wet	1.67		58.4	40-140	4.20	30	
Benzo(g,h,i)perylene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	0.959	30	
Benzo(k)fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	4.42	30	
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	5.04	30	
Dibenz(a,h)anthracene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140	2.76	30	
Fluoranthene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140	5.37	30	
Fluorene	0.999	0.17	mg/Kg wet	1.67		60.0	40-140	2.09	30	
Indeno(1,2,3-cd)pyrene	0.956	0.17	mg/Kg wet	1.67		57.3	40-140	2.36	30	
2-Methylnaphthalene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	7.12	30	
Naphthalene	0.900	0.17	mg/Kg wet	1.67		54.0	40-140	4.51	30	
Phenanthrene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	4.94	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140	5.20	30	
Surrogate: Nitrobenzene-d5	2.03		mg/Kg wet	3.33		61.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.1	30-130			
Surrogate: p-Terphenyl-d14	2.29		mg/Kg wet	3.33		68.6	30-130			

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

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212013 - SW-846 3546										
Blank (B212013-BLK1) Prepared: 09/07/18 Analyzed: 09/08/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg wet	0.200		100	30-150			
LCS (B212013-BS1) Prepared: 09/07/18 Analyzed: 09/08/18										
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
4,4'-DDT [2C]	0.093	0.0040	mg/Kg wet	0.100		93.2	40-140			
Endosulfan I	0.095	0.0050	mg/Kg wet	0.100		95.5	40-140			
Endosulfan I [2C]	0.096	0.0050	mg/Kg wet	0.100		95.6	40-140			
Endosulfan II	0.096	0.0080	mg/Kg wet	0.100		96.5	40-140			
Endosulfan II [2C]	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140			
Surrogate: Decachlorobiphenyl	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		100	30-150			
LCS Dup (B212013-BSD1) Prepared: 09/07/18 Analyzed: 09/08/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		105	40-140	2.36	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		104	40-140	0.746	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		104	40-140	2.42	30	
4,4'-DDT [2C]	0.095	0.0040	mg/Kg wet	0.100		94.9	40-140	1.78	30	
Endosulfan I	0.097	0.0050	mg/Kg wet	0.100		96.8	40-140	1.37	30	
Endosulfan I [2C]	0.097	0.0050	mg/Kg wet	0.100		96.9	40-140	1.39	30	
Endosulfan II	0.098	0.0080	mg/Kg wet	0.100		98.3	40-140	1.85	30	
Endosulfan II [2C]	0.098	0.0080	mg/Kg wet	0.100		97.7	40-140	1.80	30	
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
Matrix Spike (B212013-MS1) Source: 1810254-01 Prepared: 09/07/18 Analyzed: 09/09/18										
4,4'-DDE	0.11	0.0043	mg/Kg dry	0.108	ND	103	30-150			
4,4'-DDE [2C]	0.11	0.0043	mg/Kg dry	0.108	ND	103	30-150			
4,4'-DDT	0.10	0.0043	mg/Kg dry	0.108	ND	97.2	30-150			
4,4'-DDT [2C]	0.098	0.0043	mg/Kg dry	0.108	ND	91.4	30-150			
Endosulfan I	0.10	0.0054	mg/Kg dry	0.108	ND	96.5	30-150			
Endosulfan I [2C]	0.10	0.0054	mg/Kg dry	0.108	ND	96.1	30-150			
Endosulfan II	0.10	0.0086	mg/Kg dry	0.108	ND	95.2	30-150			
Endosulfan II [2C]	0.10	0.0086	mg/Kg dry	0.108	ND	95.0	30-150			
Surrogate: Decachlorobiphenyl	0.222		mg/Kg dry	0.215		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.215		90.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212013 - SW-846 3546										
Matrix Spike (B212013-MS1)		Source: 1810254-01			Prepared: 09/07/18 Analyzed: 09/09/18					
Surrogate: Tetrachloro-m-xylene	0.210		mg/Kg dry	0.215		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.215		mg/Kg dry	0.215		99.9	30-150			
Matrix Spike Dup (B212013-MSD1)		Source: 1810254-01			Prepared: 09/07/18 Analyzed: 09/09/18					
4,4'-DDE	0.12	0.0043	mg/Kg dry	0.109	ND	107	30-150	4.70	30	
4,4'-DDE [2C]	0.12	0.0043	mg/Kg dry	0.109	ND	106	30-150	3.86	30	
4,4'-DDT	0.11	0.0043	mg/Kg dry	0.109	ND	99.6	30-150	3.42	30	
4,4'-DDT [2C]	0.10	0.0043	mg/Kg dry	0.109	ND	93.3	30-150	3.00	30	
Endosulfan I	0.11	0.0054	mg/Kg dry	0.109	ND	99.2	30-150	3.80	30	
Endosulfan I [2C]	0.11	0.0054	mg/Kg dry	0.109	ND	98.7	30-150	3.60	30	
Endosulfan II	0.11	0.0087	mg/Kg dry	0.109	ND	98.8	30-150	4.73	30	
Endosulfan II [2C]	0.11	0.0087	mg/Kg dry	0.109	ND	98.6	30-150	4.70	30	
Surrogate: Decachlorobiphenyl	0.225		mg/Kg dry	0.217		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg dry	0.217		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.216		mg/Kg dry	0.217		99.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.224		mg/Kg dry	0.217		103	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212053 - % Solids

Duplicate (B212053-DUP1)

Source: 1810254-01

Prepared & Analyzed: 09/10/18

% Solids	89.9		% Wt			90.2		0.345	20	
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BREAKDOWN REPORT

Lab Sample ID: S027094-PEM1 **Analyzed:** 09/08/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.65
Endrin [1] 1.92

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.58
Endrin [2] 1.86

BREAKDOWN REPORT

Lab Sample ID: S027094-PEM2 **Analyzed:** 09/08/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.80
Endrin [1] 2.43

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.69
Endrin [2] 2.40

BREAKDOWN REPORT

Lab Sample ID: S027094-PEM3 **Analyzed:** 09/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.47
Endrin [1] 3.48

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BREAKDOWN REPORT

Lab Sample ID: S027094-PEM3 Analyzed: 09/09/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	4.45
Endrin [2]	3.22

BREAKDOWN REPORT

Lab Sample ID: S027094-PEM4 Analyzed: 09/09/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	3.16
Endrin [1]	2.91

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	3.10
Endrin [2]	2.92

BREAKDOWN REPORT

Lab Sample ID: S027094-PEM5 Analyzed: 09/09/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	3.70
Endrin [1]	4.01

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	3.66
Endrin [2]	4.02

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212013-BS1 Date(s) Analyzed 09/08/2018 09/08/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.765	6.735	6.795	0.10	
	2	6.856	6.827	6.887	0.10	0.0
4,4'-DDT	1	7.412	7.383	7.443	0.10	
	2	7.528	7.499	7.559	0.093	7.3
Endosulfan I	1	6.804	6.775	6.835	0.095	
	2	6.768	6.738	6.798	0.096	0.0
Endosulfan II	1	7.312	7.283	7.343	0.096	
	2	7.353	7.323	7.383	0.096	1.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B212013-BSD1 Date(s) Analyzed 09/08/2018 09/08/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.764	6.735	6.795	0.11	
	2	6.857	6.827	6.887	0.10	9.5
4,4'-DDT	1	7.412	7.383	7.443	0.10	
	2	7.528	7.499	7.559	0.095	5.1
Endosulfan I	1	6.804	6.775	6.835	0.097	
	2	6.768	6.738	6.798	0.097	0.0
Endosulfan II	1	7.311	7.283	7.343	0.098	
	2	7.353	7.323	7.383	0.098	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike

Lab Sample ID: B212013-MS1 Date(s) Analyzed 09/09/2018 09/09/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.763	6.733	6.793	0.11	
	2	6.855	6.826	6.886	0.11	0.0
4,4'-DDT	1	7.410	7.380	7.440	0.10	
	2	7.527	7.497	7.557	0.098	11.5
Endosulfan I	1	6.802	6.772	6.832	0.10	
	2	6.767	6.737	6.797	0.10	0.0
Endosulfan II	1	7.310	7.280	7.340	0.10	
	2	7.351	7.322	7.382	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B212013-MSD1 Date(s) Analyzed 09/09/2018 09/09/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.763	6.733	6.793	0.12	
	2	6.856	6.826	6.886	0.12	0.0
4,4'-DDT	1	7.410	7.380	7.440	0.11	
	2	7.527	7.497	7.557	0.10	9.5
Endosulfan I	1	6.802	6.772	6.832	0.11	
	2	6.766	6.737	6.797	0.11	0.0
Endosulfan II	1	7.310	7.280	7.340	0.11	
	2	7.351	7.322	7.382	0.11	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

39 Spruce Street
East Longmeadow, MA 01028

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: OU_2 Sed

Project Number: Matthew Warren
Project Manager: Matthew Warren

Con-Test Quote Name/Number: miw@land-remediation.com
Invoice Recipient: miw@land-remediation.com

Sampled By: Kyle Jones

Requested Turnaround Time: 7-Day 10-Day
Due Date: Rush/Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: Format: PDF EXCEL
Other: CLP Like Data Pkg Required:
Email To: miw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU2-SED-74-Sidewall	9/6/2018 15:08	9/6/2018 15:16	X	S	L	X
02	OU2-SED-15-Bottom	9/6/2018 15:20	9/6/2018 15:28	X	S	L	X
03	OU2-SED-14-Bottom	9/6/2018 15:30	9/6/2018 15:36	X	S	L	X
04	OU2-SED-73-Sidewall	9/6/2018 15:37	9/6/2018 15:48	X	S	L	X
05	OU2-SED-75-Sidewall	9/6/2018 15:50	9/6/2018 15:59	X	S	L	X
06	OU2-SED-16-Bottom	9/6/2018 15:55	9/6/2018 16:02	X	S	L	X
07	OU2-SED-76-Sidewall	9/6/2018 16:04	9/6/2018 16:10	X	S	L	X
08	OU2-SED-78-Sidewall	9/6/2018 16:12	9/6/2018 16:19	X	S	L	X
09	OU2-SED-21-Bottom	9/6/2018 16:20	9/6/2018 16:35	X	S	L	X
10	OU2-SED-19-Bottom	9/6/2018 16:37	9/6/2018 16:41	X	S	L	X

Comments: *8081: 4-4DDE, 4-4DDT, Endosulfan I and II; 8260 STD: BTEX, 124-TMB, Isopropylbenzene + Total Xylene

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

Relinquished by: (signature) Date/Time: 9/17/18 8:45
Received by: (signature) Date/Time: 9/17-18 8:45A
Relinquished by: (signature) Date/Time: 9/17-18 12:30P
Received by: (signature) Date/Time: 9/17/18 12:30
Relinquished by: (signature) Date/Time: 9/17/18 2:48
Received by: (signature) Date/Time: 9/17/18 3:00C
Relinquished by: (signature) Date/Time: 9/17/18 1445

Program & Regulatory Information:
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375
 Other: NYSDEC, EQUIS EDD, NY Regulatory EDD, NY Regs Hits-Only EDD

Project Entity:
 Government Municipality MWRA WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA AIHA-LAP, LLC

18100234

ANALYSIS REQUESTED

8260 Standard*
8081*

of Containers
 2 Preservation Code
 3 Container Code
 Dissolved Metals Samples
 Field Filtered
 Lab to Filter
 Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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

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

PCB ONLY
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By PLF Date 9/11/18 Time 1445

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 - 3.10 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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Cate

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>10</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>20</u>	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:

September 4, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake OU_3
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1527

Enclosed are results of analyses for samples received by the laboratory on August 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 9/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1527

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

PROJECT LOCATION: Saranac Lake OU_3

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-SED-0164-Bottom	18H1527-01	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-165-Bottom	18H1527-02	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-166-Sidewall	18H1527-03	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-167-Sidewall	18H1527-04	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-168-Sidewall	18H1527-05	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-SED-169-Sidewall	18H1527-06	Soil		SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-0164-Bottom

Sample ID: 18H1527-01

Start Date/Time: 8/30/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
Ethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
Toluene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00057	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:16	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		110	70-130					9/4/18	8:16	
Toluene-d8		96.7	70-130					9/4/18	8:16	
4-Bromofluorobenzene		102	70-130					9/4/18	8:16	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-0164-Bottom

Sample ID: 18H1527-01

Start Date/Time: 8/30/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:50:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:34	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		50.5	30-130						9/1/18 18:34	
2-Fluorobiphenyl		53.0	30-130						9/1/18 18:34	
p-Terphenyl-d14		62.1	30-130						9/1/18 18:34	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-0164-Bottom

Sample ID: 18H1527-01

Start Date/Time: 8/30/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:50:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:12	TG
4,4'-DDT [2]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:12	TG
Endosulfan I [2]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:12	TG
Endosulfan II [2]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:12	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.6		30-150						9/1/18 20:12	
Decachlorobiphenyl [2]	91.8		30-150						9/1/18 20:12	
Tetrachloro-m-xylene [1]	93.8		30-150						9/1/18 20:12	
Tetrachloro-m-xylene [2]	92.2		30-150						9/1/18 20:12	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-0164-Bottom

Sample ID: 18H1527-01

Start Date/Time: 8/30/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:50:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	8/31/18	9/1/18 9:03	MAT

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-165-Bottom

Sample ID: 18H1527-02

Start Date/Time: 8/30/2018 11:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:40:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
Ethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
Isopropylbenzene (Cumene)	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
Toluene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
1,2,4-Trimethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
o-Xylene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 8:43	MFF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		115	70-130					9/4/18	8:43	
Toluene-d8		97.1	70-130					9/4/18	8:43	
4-Bromofluorobenzene		101	70-130					9/4/18	8:43	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-165-Bottom

Sample ID: 18H1527-02

Start Date/Time: 8/30/2018 11:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:40:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 18:56	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		54.6	30-130						9/1/18 18:56	
2-Fluorobiphenyl		58.3	30-130						9/1/18 18:56	
p-Terphenyl-d14		70.0	30-130						9/1/18 18:56	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-165-Bottom

Sample ID: 18H1527-02

Start Date/Time: 8/30/2018 11:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:40:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0047	0.00035	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:39	TG
4,4'-DDT [2]	ND	0.0047	0.00047	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:39	TG
Endosulfan I [2]	ND	0.0059	0.00047	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:39	TG
Endosulfan II [2]	ND	0.0095	0.00035	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 20:39	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.6		30-150				9/1/18 20:39			
Decachlorobiphenyl [2]	91.7		30-150				9/1/18 20:39			
Tetrachloro-m-xylene [1]	97.5		30-150				9/1/18 20:39			
Tetrachloro-m-xylene [2]	92.3		30-150				9/1/18 20:39			

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-165-Bottom

Sample ID: 18H1527-02

Start Date/Time: 8/30/2018 11:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:40:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	8/31/18	9/1/18 9:03	MAT

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-166-Sidewall

Sample ID: 18H1527-03

Start Date/Time: 8/30/2018 11:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:59:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
Ethylbenzene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
Toluene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
1,2,4-Trimethylbenzene	0.0021	0.0013	0.00054	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:10	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		112	70-130						9/4/18 9:10	
Toluene-d8		106	70-130						9/4/18 9:10	
4-Bromofluorobenzene		103	70-130						9/4/18 9:10	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-166-Sidewall

Sample ID: 18H1527-03

Start Date/Time: 8/30/2018 11:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:59:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.12	0.21	0.062	mg/Kg dry	1	J	SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
2-Methylnaphthalene	0.14	0.21	0.072	mg/Kg dry	1	J	SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Naphthalene	0.32	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:17	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	59.7		30-130				9/1/18 19:17			
2-Fluorobiphenyl	63.6		30-130				9/1/18 19:17			
p-Terphenyl-d14	72.6		30-130				9/1/18 19:17			

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-166-Sidewall

Sample ID: 18H1527-03

Start Date/Time: 8/30/2018 11:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:59:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:06	TG
4,4'-DDT [2]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:06	TG
Endosulfan I [2]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:06	TG
Endosulfan II [2]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:06	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.5		30-150						9/1/18 21:06	
Decachlorobiphenyl [2]	84.4		30-150						9/1/18 21:06	
Tetrachloro-m-xylene [1]	86.4		30-150						9/1/18 21:06	
Tetrachloro-m-xylene [2]	79.2		30-150						9/1/18 21:06	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-166-Sidewall

Sample ID: 18H1527-03

Start Date/Time: 8/30/2018 11:52:00AM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 11:59:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	8/31/18	9/1/18 9:03	MAT

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-167-Sidewall

Sample ID: 18H1527-04

Start Date/Time: 8/30/2018 12:01:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:04:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
Toluene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
o-Xylene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 9:37	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		108	70-130					9/4/18	9:37	
Toluene-d8		102	70-130					9/4/18	9:37	
4-Bromofluorobenzene		104	70-130					9/4/18	9:37	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-167-Sidewall

Sample ID: 18H1527-04

Start Date/Time: 8/30/2018 12:01:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:04:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 19:39	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		56.5	30-130						9/1/18 19:39	
2-Fluorobiphenyl		60.5	30-130						9/1/18 19:39	
p-Terphenyl-d14		70.7	30-130						9/1/18 19:39	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-167-Sidewall

Sample ID: 18H1527-04

Start Date/Time: 8/30/2018 12:01:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:04:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0050	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:33	TG
4,4'-DDT [2]	ND	0.0050	0.00050	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:33	TG
Endosulfan I [2]	ND	0.0062	0.00050	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:33	TG
Endosulfan II [2]	ND	0.0099	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 21:33	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.3		30-150						9/1/18 21:33	
Decachlorobiphenyl [2]	89.1		30-150						9/1/18 21:33	
Tetrachloro-m-xylene [1]	95.1		30-150						9/1/18 21:33	
Tetrachloro-m-xylene [2]	92.5		30-150						9/1/18 21:33	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-167-Sidewall

Sample ID: 18H1527-04

Start Date/Time: 8/30/2018 12:01:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:04:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	8/31/18	9/1/18 9:04	MAT

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-168-Sidewall

Sample ID: 18H1527-05

Start Date/Time: 8/30/2018 12:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:09:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
Toluene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:05	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		104	70-130						9/4/18 10:05	
Toluene-d8		97.9	70-130						9/4/18 10:05	
4-Bromofluorobenzene		112	70-130						9/4/18 10:05	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-168-Sidewall

Sample ID: 18H1527-05

Start Date/Time: 8/30/2018 12:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:09:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:01	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		69.7	30-130						9/1/18 20:01	
2-Fluorobiphenyl		72.1	30-130						9/1/18 20:01	
p-Terphenyl-d14		78.2	30-130						9/1/18 20:01	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-168-Sidewall

Sample ID: 18H1527-05

Start Date/Time: 8/30/2018 12:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:09:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:00	TG
4,4'-DDT [2]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:00	TG
Endosulfan I [2]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:00	TG
Endosulfan II [2]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:00	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.9		30-150				9/1/18 22:00			
Decachlorobiphenyl [2]	83.7		30-150				9/1/18 22:00			
Tetrachloro-m-xylene [1]	88.4		30-150				9/1/18 22:00			
Tetrachloro-m-xylene [2]	85.9		30-150				9/1/18 22:00			

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-168-Sidewall

Sample ID: 18H1527-05

Start Date/Time: 8/30/2018 12:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:09:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	8/31/18	9/1/18 9:04	MAT

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-169-Sidewall

Sample ID: 18H1527-06

Start Date/Time: 8/30/2018 12:10:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
Ethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
Toluene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
m+p Xylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
o-Xylene	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
Xylenes (total)	ND	0.0039		mg/Kg dry	1		SW-846 8260C	9/4/18	9/4/18 10:32	MF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4		105	70-130						9/4/18 10:32	
Toluene-d8		101	70-130						9/4/18 10:32	
4-Bromofluorobenzene		100	70-130						9/4/18 10:32	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-169-Sidewall

Sample ID: 18H1527-06

Start Date/Time: 8/30/2018 12:10:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/31/18	9/1/18 20:22	CDT
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		70.7	30-130						9/1/18 20:22	
2-Fluorobiphenyl		72.6	30-130						9/1/18 20:22	
p-Terphenyl-d14		78.1	30-130						9/1/18 20:22	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-169-Sidewall

Sample ID: 18H1527-06

Start Date/Time: 8/30/2018 12:10:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:15:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDE [2]	ND	0.0049	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:26	TG
4,4'-DDT [2]	ND	0.0049	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:26	TG
Endosulfan I [2]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:26	TG
Endosulfan II [2]	ND	0.0098	0.00037	mg/Kg dry	1		SW-846 8081B	8/31/18	9/1/18 22:26	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	92.0		30-150						9/1/18 22:26	
Decachlorobiphenyl [2]	89.1		30-150						9/1/18 22:26	
Tetrachloro-m-xylene [1]	95.8		30-150						9/1/18 22:26	
Tetrachloro-m-xylene [2]	92.3		30-150						9/1/18 22:26	

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Project Location: Saranac Lake OU_3

Sample Description:

Work Order: 18H1527

Date Received: 8/31/2018

Field Sample #: OU2-SED-169-Sidewall

Sample ID: 18H1527-06

Start Date/Time: 8/30/2018 12:10:00PM

Sample Matrix: Soil

Stop Date/Time: 8/30/2018 12:15:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	8/31/18	9/1/18 9:04	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1527-01 [OU2-SED-0164-Bottom]	B211599	08/31/18
18H1527-02 [OU2-SED-165-Bottom]	B211599	08/31/18
18H1527-03 [OU2-SED-166-Sidewall]	B211599	08/31/18
18H1527-04 [OU2-SED-167-Sidewall]	B211599	08/31/18
18H1527-05 [OU2-SED-168-Sidewall]	B211599	08/31/18
18H1527-06 [OU2-SED-169-Sidewall]	B211599	08/31/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1527-01 [OU2-SED-0164-Bottom]	B211567	10.0	10.0	08/31/18
18H1527-02 [OU2-SED-165-Bottom]	B211567	10.0	10.0	08/31/18
18H1527-03 [OU2-SED-166-Sidewall]	B211567	10.0	10.0	08/31/18
18H1527-04 [OU2-SED-167-Sidewall]	B211567	10.0	10.0	08/31/18
18H1527-05 [OU2-SED-168-Sidewall]	B211567	10.0	10.0	08/31/18
18H1527-06 [OU2-SED-169-Sidewall]	B211567	10.0	10.0	08/31/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1527-01 [OU2-SED-0164-Bottom]	B211652	8.70	10.0	09/04/18
18H1527-02 [OU2-SED-165-Bottom]	B211652	9.17	10.0	09/04/18
18H1527-03 [OU2-SED-166-Sidewall]	B211652	9.19	10.0	09/04/18
18H1527-04 [OU2-SED-167-Sidewall]	B211652	9.38	10.0	09/04/18
18H1527-05 [OU2-SED-168-Sidewall]	B211652	8.79	10.0	09/04/18
18H1527-06 [OU2-SED-169-Sidewall]	B211652	9.47	10.0	09/04/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1527-01 [OU2-SED-0164-Bottom]	B211584	30.4	1.00	08/31/18
18H1527-02 [OU2-SED-165-Bottom]	B211584	30.0	1.00	08/31/18
18H1527-03 [OU2-SED-166-Sidewall]	B211584	30.4	1.00	08/31/18
18H1527-04 [OU2-SED-167-Sidewall]	B211584	30.4	1.00	08/31/18
18H1527-05 [OU2-SED-168-Sidewall]	B211584	30.1	1.00	08/31/18
18H1527-06 [OU2-SED-169-Sidewall]	B211584	30.3	1.00	08/31/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211652 - SW-846 5035										
Blank (B211652-BLK1)										
Prepared & Analyzed: 09/04/18										
Benzene	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0537		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0527		mg/Kg wet	0.0500		105	70-130			
LCS (B211652-BS1)										
Prepared & Analyzed: 09/04/18										
Benzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Toluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
m+p Xylene	0.0415	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0542		mg/Kg wet	0.0500		108	70-130			
LCS Dup (B211652-BSD1)										
Prepared & Analyzed: 09/04/18										
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.13	25	
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	1.35	25	
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	3.17	25	
Toluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.00	25	
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.72	25	
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130	1.26	25	
o-Xylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.75	25	
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211584 - SW-846 3546										
Blank (B211584-BLK1)										
Prepared: 08/31/18 Analyzed: 09/01/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.16		mg/Kg wet	3.33		64.7	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/Kg wet	3.33		75.3	30-130			
LCS (B211584-BS1)										
Prepared: 08/31/18 Analyzed: 09/01/18										
Acenaphthene	0.828	0.17	mg/Kg wet	1.67		49.7	40-140			
Acenaphthylene	0.831	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.873	0.17	mg/Kg wet	1.67		52.4	40-140			
Benzo(a)anthracene	0.888	0.17	mg/Kg wet	1.67		53.3	40-140			
Benzo(a)pyrene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140			
Benzo(b)fluoranthene	0.824	0.17	mg/Kg wet	1.67		49.5	40-140			
Benzo(g,h,i)perylene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140			
Benzo(k)fluoranthene	0.846	0.17	mg/Kg wet	1.67		50.7	40-140			
Chrysene	0.853	0.17	mg/Kg wet	1.67		51.2	40-140			
Dibenz(a,h)anthracene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.4	40-140			
Fluorene	0.840	0.17	mg/Kg wet	1.67		50.4	40-140			
Indeno(1,2,3-cd)pyrene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
2-Methylnaphthalene	0.856	0.17	mg/Kg wet	1.67		51.3	40-140			
Naphthalene	0.781	0.17	mg/Kg wet	1.67		46.8	40-140			
Phenanthrene	0.869	0.17	mg/Kg wet	1.67		52.2	40-140			
Pyrene	0.881	0.17	mg/Kg wet	1.67		52.8	40-140			
Surrogate: Nitrobenzene-d5	1.68		mg/Kg wet	3.33		50.5	30-130			
Surrogate: 2-Fluorobiphenyl	1.92		mg/Kg wet	3.33		57.5	30-130			
Surrogate: p-Terphenyl-d14	2.12		mg/Kg wet	3.33		63.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211584 - SW-846 3546										
LCS Dup (B211584-BSD1)										
					Prepared: 08/31/18 Analyzed: 09/01/18					
Acenaphthene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	18.1	30	
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	18.1	30	
Anthracene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	15.4	30	
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	14.8	30	
Benzo(a)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	14.9	30	
Benzo(b)fluoranthene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	14.5	30	
Benzo(g,h,i)perylene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	15.2	30	
Benzo(k)fluoranthene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140	14.5	30	
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.0	40-140	15.9	30	
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	16.7	30	
Fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	15.5	30	
Fluorene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140	16.5	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	15.7	30	
2-Methylnaphthalene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	18.3	30	
Naphthalene	0.958	0.17	mg/Kg wet	1.67		57.5	40-140	20.4	30	
Phenanthrene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	16.4	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140	15.3	30	
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.28		mg/Kg wet	3.33		68.5	30-130			
Surrogate: p-Terphenyl-d14	2.41		mg/Kg wet	3.33		72.3	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211567 - SW-846 3546										
Blank (B211567-BLK1)										
Prepared: 08/31/18 Analyzed: 09/01/18										
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		101	30-150			
LCS (B211567-BS1)										
Prepared: 08/31/18 Analyzed: 09/01/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		112	40-140			
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		108	40-140			
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.100		112	40-140			
4,4'-DDT [2C]	0.11	0.0040	mg/Kg wet	0.100		110	40-140			
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		100	40-140			
Endosulfan I [2C]	0.095	0.0050	mg/Kg wet	0.100		94.7	40-140			
Endosulfan II	0.10	0.0080	mg/Kg wet	0.100		103	40-140			
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		99.9	40-140			
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.198		mg/Kg wet	0.200		99.0	30-150			
LCS Dup (B211567-BSD1)										
Prepared: 08/31/18 Analyzed: 09/01/18										
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		112	40-140	0.825	30	
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		109	40-140	0.788	30	
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.100		113	40-140	0.781	30	
4,4'-DDT [2C]	0.11	0.0040	mg/Kg wet	0.100		110	40-140	0.269	30	
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		101	40-140	0.839	30	
Endosulfan I [2C]	0.096	0.0050	mg/Kg wet	0.100		95.9	40-140	1.24	30	
Endosulfan II	0.10	0.0080	mg/Kg wet	0.100		104	40-140	1.09	30	
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140	0.615	30	
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.1	30-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211599 - % Solids

Duplicate (B211599-DUP6)

Source: 18H1527-01

Prepared: 08/31/18 Analyzed: 09/01/18

% Solids	81.1		% Wt		80.6			0.558	20	
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BREAKDOWN REPORT

Lab Sample ID: S026891-PEM1 **Analyzed:** 09/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.51
Endrin [1] 3.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.58
Endrin [2] 3.41

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM2 **Analyzed:** 09/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.58
Endrin [1] 3.23

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.64
Endrin [2] 3.42

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM3 **Analyzed:** 09/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.60
Endrin [1] 1.95

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BREAKDOWN REPORT

Lab Sample ID: S026891-PEM3 **Analyzed:** 09/02/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	0.65
Endrin [2]	2.05

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM4 **Analyzed:** 09/02/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	0.64
Endrin [1]	2.05

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	0.67
Endrin [2]	2.15

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211567-BS1 Date(s) Analyzed 09/01/2018 09/01/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.826	6.796	6.856	0.11	
	2	6.916	6.886	6.946	0.11	0.0
4,4'-DDT	1	7.478	7.449	7.509	0.11	
	2	7.591	7.561	7.621	0.11	0.0
Endosulfan I	1	6.868	6.838	6.898	0.10	
	2	6.829	6.799	6.859	0.095	5.1
Endosulfan II	1	7.380	7.350	7.410	0.10	
	2	7.418	7.387	7.447	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B211567-BSD1 Date(s) Analyzed 09/01/2018 09/01/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.826	6.796	6.856	0.11	
	2	6.917	6.886	6.946	0.11	0.0
4,4'-DDT	1	7.478	7.449	7.509	0.11	
	2	7.592	7.561	7.621	0.11	0.0
Endosulfan I	1	6.868	6.838	6.898	0.10	
	2	6.829	6.799	6.859	0.096	4.1
Endosulfan II	1	7.380	7.350	7.410	0.10	
	2	7.418	7.387	7.447	0.10	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Benzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number: Matthew Warren
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Ethan Bradt

Requested Turnaround Time: 7-Day 10-Day
Due Date:
Push-Approval Required: 1-Day 3-Day
2-Day 4-Day
Data Delivery: Format: PDF EXCEL
Other: CAT B - Equis
CLP Like Data Pkg Required:
Email To: mjw@land-remediation.com
Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-SED-0164-Bottom	8/30/2018 11:45	8/30/2018 11:50	X	X	S	L
2	OU2-SED-165-Bottom	8/30/2018 11:35	8/30/2018 11:40	X	X	S	L
3	OU2-SED-166-Sidewall	8/30/2018 11:52	8/30/2018 11:59	X	X	S	L
4	OU2-SED-167-Sidewall	8/30/2018 12:01	8/30/2018 12:04	X	X	S	L
5	OU2-SED-168-Sidewall	8/30/2018 12:05	8/30/2018 12:09	X	X	S	L
6	OU2-SED-169-Sidewall	8/30/2018 12:10	8/30/2018 12:15	X	X	S	L

Comments: LRI Personnel - Attached

Received 8-31-18 8:30 Am
Reling: 8-31-18 12:05 pm

Only report analytes shown on Table 4-2 (Attached for reference).

Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8/30/18 8:30
Received by: (signature) <i>[Signature]</i>	Date/Time: 8-31-18 2:30 AM
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8/30/18 12:05 AM
Received by: (signature) <i>[Signature]</i>	Date/Time: 8/31/18 12:11
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8-31-18 2:3

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
VOC 8270							
VOC 8260	Pesticides						

ANALYSIS REQUESTED

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
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

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



Program & Regulatory Information
 AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City

Municipality
 21 J
 Brownfield

Other
 MWRA
 School
 MBTA

Other
 WRTA
 Chromatogram
 AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAN Remediation

Received By ESD Date 8-31-18 Time 15:20

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

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 7.3
 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? Rye
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb Clear
Meoh-	<u>6</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>12</u>	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:

August 28, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1233

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/28/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1233

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-147/Bottom	18H1233-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1233

Date Received: 8/24/2018

Field Sample #: OU2-Soil-147/Bottom

Sample ID: 18H1233-01

Start Date/Time: 8/23/2018 10:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 10:46:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 12:27	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 12:27	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 12:27	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1233

Date Received: 8/24/2018

Field Sample #: OU2-Soil-147/Bottom

Sample ID: 18H1233-01

Start Date/Time: 8/23/2018 10:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 10:46:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	51.8	30-130	
2-Fluorobiphenyl	55.5	30-130	
p-Terphenyl-d14	71.2	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1233

Date Received: 8/24/2018

Field Sample #: OU2-Soil-147/Bottom

Sample ID: 18H1233-01

Start Date/Time: 8/23/2018 10:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 10:46:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 3:07	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.5		30-150						8/26/18 3:07	
Decachlorobiphenyl [2]	92.2		30-150						8/26/18 3:07	
Tetrachloro-m-xylene [1]	92.8		30-150						8/26/18 3:07	
Tetrachloro-m-xylene [2]	84.4		30-150						8/26/18 3:07	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1233

Date Received: 8/24/2018

Field Sample #: OU2-Soil-147/Bottom

Sample ID: 18H1233-01

Start Date/Time: 8/23/2018 10:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 10:46:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.3	0.38	0.23	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 16:58	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1233

Date Received: 8/24/2018

Field Sample #: OU2-Soil-147/Bottom

Sample ID: 18H1233-01

Start Date/Time: 8/23/2018 10:38:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 10:46:00AM

Conventional 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	8/24/18	8/25/18 10:38	MAT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1233-01 [OU2-Soil-147/Bottom]	B211106	08/24/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1233-01 [OU2-Soil-147/Bottom]	B211116	1.53	50.0	08/25/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1233-01 [OU2-Soil-147/Bottom]	B211093	10.6	10.0	08/24/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1233-01 [OU2-Soil-147/Bottom]	B211193	7.64	10.0	08/27/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1233-01 [OU2-Soil-147/Bottom]	B211094	30.6	1.00	08/24/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211193 - SW-846 5035										
Blank (B211193-BLK1)					Prepared & Analyzed: 08/27/18					
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.3	70-130			
LCS (B211193-BS1)					Prepared & Analyzed: 08/27/18					
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		98.1	70-130			
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0539		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211193-BSD1)					Prepared & Analyzed: 08/27/18					
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.7	70-130	1.39	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	3.35	25	
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211094 - SW-846 3546

Blank (B211094-BLK1)

Prepared: 08/24/18 Analyzed: 08/25/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.68		mg/Kg wet	3.33		80.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.1	30-130			
Surrogate: p-Terphenyl-d14	3.57		mg/Kg wet	3.33		107	30-130			

LCS (B211094-BS1)

Prepared: 08/24/18 Analyzed: 08/25/18

Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Dibenz(a,h)anthracene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Surrogate: Nitrobenzene-d5	2.28		mg/Kg wet	3.33		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.1	30-130			

LCS Dup (B211094-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	6.77	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	4.56	30	
Benzo(b)fluoranthene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140	7.31	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	2.41	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	7.61	30	
Dibenz(a,h)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	4.64	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.97	30	
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.33		63.5	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		81.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211093 - SW-846 3546										
Blank (B211093-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
LCS (B211093-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
alpha-BHC	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140			
alpha-BHC [2C]	0.069	0.0050	mg/Kg wet	0.100		69.0	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			
LCS Dup (B211093-BSD1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
alpha-BHC	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	5.82	30	
alpha-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		71.7	40-140	3.94	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			

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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 B211116 - SW-846 3050B										
Blank (B211116-BLK1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B211116-BS1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Chromium	142	0.99	mg/Kg wet	136	104		82.4-117.6			
LCS Dup (B211116-BSD1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Chromium	139	0.99	mg/Kg wet	136	102		82.4-117.6	2.37	30	

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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Lung Remediation

Received By ESD Date 8-24-18 Time 14:35

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 # 533 Actual Temp - 4.1

Was Custody Seal Intact? NA By Blank # _____ Actual Temp - _____

Was COC Relinquished? T Were Samples Tampered with? NA

Are there broken/leaking/loose caps on any samples? F Does Chain Agree With Samples? T

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

Did COC include all Client T Analysis T Sampler Name T

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? ERIC, MIKE

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>2</u>	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:

September 14, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: OU_2 Soil
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0498

Enclosed are results of analyses for samples received by the laboratory on September 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0498

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

PROJECT LOCATION: OU_2 Soil

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-154-Sidewall	18I0498-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 1810498

Date Received: 9/13/2018

Field Sample #: OU2-Soil-154-Sidewall

Sample ID: 1810498-01

Start Date/Time: 9/11/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:14:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:32	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:32	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	9/13/18	9/13/18 12:32	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	105	70-130	

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 1810498

Date Received: 9/13/2018

Field Sample #: OU2-Soil-154-Sidewall

Sample ID: 1810498-01

Start Date/Time: 9/11/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:14:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	9/13/18	9/14/18 12:32	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	59.8	30-130	
2-Fluorobiphenyl	63.9	30-130	
p-Terphenyl-d14	72.5	30-130	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 1810498

Date Received: 9/13/2018

Field Sample #: OU2-Soil-154-Sidewall

Sample ID: 1810498-01

Start Date/Time: 9/11/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:14:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	9/13/18	9/14/18 10:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.7		30-150						9/14/18 10:45	
Decachlorobiphenyl [2]	70.0		30-150						9/14/18 10:45	
Tetrachloro-m-xylene [1]	70.5		30-150						9/14/18 10:45	
Tetrachloro-m-xylene [2]	62.3		30-150						9/14/18 10:45	

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Project Location: OU_2 Soil

Sample Description:

Work Order: 18I0498

Date Received: 9/13/2018

Field Sample #: OU2-Soil-154-Sidewall

Sample ID: 18I0498-01

Start Date/Time: 9/11/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:14:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.3	0.37	0.23	mg/Kg dry	1		SW-846 6010D	9/13/18	9/14/18 13:55	QNW

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

Project Location: OU_2 Soil

Sample Description:

Work Order: 18I0498

Date Received: 9/13/2018

Field Sample #: OU2-Soil-154-Sidewall

Sample ID: 18I0498-01

Start Date/Time: 9/11/2018 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 9/11/2018 2:14:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/13/18	9/14/18 14:48	MAT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I0498-01 [OU2-Soil-154-Sidewall]	B212445	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0498-01 [OU2-Soil-154-Sidewall]	B212386	1.53	50.0	09/13/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0498-01 [OU2-Soil-154-Sidewall]	B212399	10.0	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0498-01 [OU2-Soil-154-Sidewall]	B212424	7.33	10.0	09/13/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I0498-01 [OU2-Soil-154-Sidewall]	B212411	30.0	1.00	09/13/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212424 - SW-846 5035										
Blank (B212424-BLK1)										
Prepared & Analyzed: 09/13/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0454		mg/Kg wet	0.0500		90.9	70-130			
Surrogate: Toluene-d8	0.0473		mg/Kg wet	0.0500		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			
LCS (B212424-BS1)										
Prepared & Analyzed: 09/13/18										
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B212424-BSD1)										
Prepared & Analyzed: 09/13/18										
m+p Xylene	0.0428	0.0040	mg/Kg wet	0.0400		107	70-130	2.41	25	
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	3.51	25	
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B212411 - SW-846 3546

Blank (B212411-BLK1)

Prepared: 09/13/18 Analyzed: 09/14/18

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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.33		91.0	30-130			

LCS (B212411-BS1)

Prepared: 09/13/18 Analyzed: 09/14/18

Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.5	30-130			
Surrogate: p-Terphenyl-d14	3.12		mg/Kg wet	3.33		93.5	30-130			

LCS Dup (B212411-BSD1)

Prepared: 09/13/18 Analyzed: 09/14/18

Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.11	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140	7.19	30	
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	5.50	30	
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	7.17	30	
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	7.83	30	
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	8.64	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	8.88	30	
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.1	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212399 - SW-846 3546										
Blank (B212399-BLK1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.146		mg/Kg wet	0.200		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		68.8	30-150			
LCS (B212399-BS1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
alpha-BHC	0.075	0.0050	mg/Kg wet	0.100		74.9	40-140			
alpha-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.9	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		72.1	30-150			
LCS Dup (B212399-BSD1)										
Prepared: 09/13/18 Analyzed: 09/14/18										
alpha-BHC	0.076	0.0050	mg/Kg wet	0.100		75.7	40-140	1.05	30	
alpha-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.7	40-140	0.285	30	
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.145		mg/Kg wet	0.200		72.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		69.9	30-150			

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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 B212386 - SW-846 3050B										
Blank (B212386-BLK1)					Prepared: 09/13/18 Analyzed: 09/14/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B212386-BS1)					Prepared: 09/13/18 Analyzed: 09/14/18					
Chromium	144	0.98	mg/Kg wet	136		106	82.4-117.6			
LCS Dup (B212386-BSD1)					Prepared: 09/13/18 Analyzed: 09/14/18					
Chromium	141	0.99	mg/Kg wet	136		103	82.4-117.6	2.55	30	
Duplicate (B212386-DUP1)					Source: 1810498-01 Prepared: 09/13/18 Analyzed: 09/14/18					
Chromium	3.82	0.37	mg/Kg dry		3.28			15.2	35	
Matrix Spike (B212386-MS1)					Source: 1810498-01 Prepared: 09/13/18 Analyzed: 09/14/18					
Chromium	21.8	0.37	mg/Kg dry	18.6	3.28	99.9	75-125			

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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 B212445 - % Solids

Duplicate (B212445-DUP1)

Source: 1810498-01

Prepared: 09/13/18 Analyzed: 09/14/18

% Solids	88.5		% Wt			88.2		0.406	20	
----------	------	--	------	--	--	------	--	-------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S027292-PEM1 **Analyzed:** 09/14/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	4.83
Endrin [1]	3.85

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	4.71
Endrin [2]	3.97

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B212399-BS1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.407	5.377	5.437	0.075	
	2	5.394	5.364	5.424	0.071	5.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B212399-BSD1 Date(s) Analyzed: 09/14/2018 09/14/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.407	5.377	5.437	0.076	
	2	5.393	5.364	5.424	0.071	6.8

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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810498

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY

Phone: NYSDEC Saranac Lake Gas Co.
Project Name: OU_2 Soil
Project Location: Matthew Warren
Project Number:
Project Manager:

Con-Test Quote Name/Number: miw@land-remediation.com
Invoice Recipient: miw@land-remediation.com
Sampled By:

Requested Turnaround Time: 7-Day 10-Day
Due Date: _____
Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: Format: PDF EXCEL
Other: _____
CLP Like Data Pkg Required:
Email To: miw@land-remediation.com
Fax To #: _____

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
	OU2-Soil-154-Sidewall	9/11/2018 14:10	9/11/2018 14:14		X	S	L

Comments: *8270 PAH: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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

of Containers
1 Preservation Code
2 Container Code

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)

ANALYSIS REQUESTED

8081 - Alpha-BHC Only
8260 - Xylenes Only + total Xylene
8270 PAH+
Chromium 6010

Program & Regulatory Information

AWQ STDS NY TOGS

NYC Sewer Discharge NY CP-51

Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

Other: _____

Project Entity

Government Municipality WRA

Federal 21 J School

City Brownfield MBTA

Other

MWRRA WRTA Chromatogram

ALPHA-LAP, LLC

Relinquished by: (signature)	Date/Time: 9/12/18 15:00
Received by: (signature)	Date/Time: 9/13/18 9:25
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By RAP Date 9/13/18 Time 925

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 # 557 Actual Temp - 3.4
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? Alex, Devin, Lauren

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>1</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>2</u>	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:

August 20, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0884

Enclosed are results of analyses for samples received by the laboratory on August 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/20/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0884

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-152/Side Wall	18H0884-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU2-Soil-153/Side Wall	18H0884-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8260C**Qualifications:****L-02**

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

Analyte & Samples(s) Qualified:

Methyl Acetate
S026404-CCV1

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:

Chloromethane
S026404-CCV1

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:

1,2,3-Trichloropropane
S026404-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 1)
S026404-CCV1

Methyl Acetate
S026404-CCV1

V-20

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

Analyte & Samples(s) Qualified:

Bromomethane
S026404-CCV1

SW-846 8270D**Qualifications:****R-05**

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

Analyte & Samples(s) Qualified:

Benzo(a)pyrene
18H0884-01[OU2-Soil-152/Side Wall], 18H0884-02[OU2-Soil-153/Side Wall], B210576-BLK1, B210576-BS1, B210576-BSD1

Benzo(b)fluoranthene
18H0884-01[OU2-Soil-152/Side Wall], 18H0884-02[OU2-Soil-153/Side Wall], B210576-BLK1, B210576-BS1, B210576-BSD1

Benzo(k)fluoranthene
18H0884-01[OU2-Soil-152/Side Wall], 18H0884-02[OU2-Soil-153/Side Wall], B210576-BLK1, B210576-BS1, B210576-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-152/Side Wall

Sample ID: 18H0884-01

Start Date/Time: 8/16/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:27:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.087	0.011	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 17:16	EEH
o-Xylene	ND	0.044	0.0057	mg/Kg dry	1		SW-846 8260C	8/19/18	8/19/18 17:16	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	91.5		70-130				8/19/18 17:16			
Toluene-d8	97.5		70-130				8/19/18 17:16			
4-Bromofluorobenzene	99.3		70-130				8/19/18 17:16			

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-152/Side Wall

Sample ID: 18H0884-01

Start Date/Time: 8/16/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:27:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 14:01	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 14:01	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	69.4	30-130	
2-Fluorobiphenyl	74.8	30-130	
p-Terphenyl-d14	86.3	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-152/Side Wall

Sample ID: 18H0884-01

Start Date/Time: 8/16/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:27:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 19:10	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	70.6		30-150						8/18/18 19:10	
Decachlorobiphenyl [2]	68.4		30-150						8/18/18 19:10	
Tetrachloro-m-xylene [1]	68.9		30-150						8/18/18 19:10	
Tetrachloro-m-xylene [2]	63.0		30-150						8/18/18 19:10	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-152/Side Wall

Sample ID: 18H0884-01

Start Date/Time: 8/16/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:27:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.2	0.38	0.23	mg/Kg dry	1		SW-846 6010D	8/18/18	8/20/18 13:38	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-152/Side Wall

Sample ID: 18H0884-01

Start Date/Time: 8/16/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:27:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	8/18/18	8/19/18 15:19	BLM

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-153/Side Wall

Sample ID: 18H0884-02

Start Date/Time: 8/16/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:38:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	0.013	0.092	0.012	mg/Kg dry	1	J	SW-846 8260C	8/20/18	8/20/18 11:07	LBD
o-Xylene	ND	0.046	0.0060	mg/Kg dry	1		SW-846 8260C	8/20/18	8/20/18 11:07	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.4		70-130				8/20/18 11:07			
Toluene-d8	97.9		70-130				8/20/18 11:07			
4-Bromofluorobenzene	101		70-130				8/20/18 11:07			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-153/Side Wall

Sample ID: 18H0884-02

Start Date/Time: 8/16/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:38:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1	R-05	SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/17/18	8/18/18 15:10	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	78.2	30-130	
2-Fluorobiphenyl	81.9	30-130	
p-Terphenyl-d14	90.6	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-153/Side Wall

Sample ID: 18H0884-02

Start Date/Time: 8/16/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:38:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	8/17/18	8/18/18 19:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	63.7		30-150						8/18/18 19:37	
Decachlorobiphenyl [2]	62.8		30-150						8/18/18 19:37	
Tetrachloro-m-xylene [1]	61.9		30-150						8/18/18 19:37	
Tetrachloro-m-xylene [2]	55.7		30-150						8/18/18 19:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-153/Side Wall

Sample ID: 18H0884-02

Start Date/Time: 8/16/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:38:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.9	0.38	0.23	mg/Kg dry	1		SW-846 6010D	8/18/18	8/20/18 13:42	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0884

Date Received: 8/17/2018

Field Sample #: OU2-Soil-153/Side Wall

Sample ID: 18H0884-02

Start Date/Time: 8/16/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/16/2018 2:38:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	8/18/18	8/19/18 15:19	BLM

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0884-01 [OU2-Soil-152/Side Wall]	B210593	08/18/18
18H0884-02 [OU2-Soil-153/Side Wall]	B210593	08/18/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0884-01 [OU2-Soil-152/Side Wall]	B210597	1.58	50.0	08/18/18
18H0884-02 [OU2-Soil-153/Side Wall]	B210597	1.59	50.0	08/18/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0884-01 [OU2-Soil-152/Side Wall]	B210574	10.3	10.0	08/17/18
18H0884-02 [OU2-Soil-153/Side Wall]	B210574	10.5	10.0	08/17/18

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H0884-01 [OU2-Soil-152/Side Wall]	B210602	8.71	6.39	1	50	08/19/18

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H0884-02 [OU2-Soil-153/Side Wall]	B210618	8.32	6.38	1	50	08/20/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0884-01 [OU2-Soil-152/Side Wall]	B210576	30.2	1.00	08/17/18
18H0884-02 [OU2-Soil-153/Side Wall]	B210576	30.4	1.00	08/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210602 - SW-846 5035/5030B										
Blank (B210602-BLK1)										
Prepared & Analyzed: 08/19/18										
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0228		mg/Kg wet	0.0250		91.2	70-130			
Surrogate: Toluene-d8	0.0244		mg/Kg wet	0.0250		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0240		mg/Kg wet	0.0250		96.1	70-130			
LCS (B210602-BS1)										
Prepared & Analyzed: 08/19/18										
m+p Xylene	0.0234	0.0023	mg/Kg wet	0.0227		103	70-130			
o-Xylene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0258		mg/Kg wet	0.0283		91.1	70-130			
Surrogate: Toluene-d8	0.0277		mg/Kg wet	0.0283		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0278		mg/Kg wet	0.0283		98.0	70-130			
LCS Dup (B210602-BSD1)										
Prepared & Analyzed: 08/19/18										
m+p Xylene	0.0226	0.0023	mg/Kg wet	0.0227		99.7	70-130	3.60	25	
o-Xylene	0.0113	0.0011	mg/Kg wet	0.0113		99.3	70-130	1.40	25	
Surrogate: 1,2-Dichloroethane-d4	0.0257		mg/Kg wet	0.0283		90.8	70-130			
Surrogate: Toluene-d8	0.0276		mg/Kg wet	0.0283		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0278		mg/Kg wet	0.0283		98.1	70-130			
Batch B210618 - SW-846 5035/5030B										
Blank (B210618-BLK1)										
Prepared & Analyzed: 08/20/18										
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/Kg wet	0.0250		92.1	70-130			
Surrogate: Toluene-d8	0.0241		mg/Kg wet	0.0250		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0243		mg/Kg wet	0.0250		97.2	70-130			
LCS (B210618-BS1)										
Prepared & Analyzed: 08/20/18										
m+p Xylene	0.0237	0.0023	mg/Kg wet	0.0227		104	70-130			
o-Xylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0260		mg/Kg wet	0.0283		91.6	70-130			
Surrogate: Toluene-d8	0.0277		mg/Kg wet	0.0283		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0276		mg/Kg wet	0.0283		97.6	70-130			
LCS Dup (B210618-BSD1)										
Prepared & Analyzed: 08/20/18										
m+p Xylene	0.0239	0.0023	mg/Kg wet	0.0227		106	70-130	1.19	25	
o-Xylene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	1.55	25	
Surrogate: 1,2-Dichloroethane-d4	0.0259		mg/Kg wet	0.0283		91.3	70-130			
Surrogate: Toluene-d8	0.0278		mg/Kg wet	0.0283		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0282		mg/Kg wet	0.0283		99.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210576 - SW-846 3546

Blank (B210576-BLK1)

Prepared: 08/17/18 Analyzed: 08/18/18

Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							R-05
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							R-05
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							R-05
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.19		mg/Kg wet	3.33		65.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	3.11		mg/Kg wet	3.33		93.4	30-130			

LCS (B210576-BS1)

Prepared: 08/17/18 Analyzed: 08/18/18

Benzo(a)anthracene	0.767	0.17	mg/Kg wet	1.67		46.0	40-140			
Benzo(a)pyrene	0.786	0.17	mg/Kg wet	1.67		47.1	40-140			R-05
Benzo(b)fluoranthene	0.785	0.17	mg/Kg wet	1.67		47.1	40-140			R-05
Benzo(k)fluoranthene	0.763	0.17	mg/Kg wet	1.67		45.8	40-140			R-05
Chrysene	0.781	0.17	mg/Kg wet	1.67		46.9	40-140			
Dibenz(a,h)anthracene	0.847	0.17	mg/Kg wet	1.67		50.8	40-140			
Indeno(1,2,3-cd)pyrene	0.793	0.17	mg/Kg wet	1.67		47.6	40-140			
Surrogate: Nitrobenzene-d5	1.71		mg/Kg wet	3.33		51.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.72		mg/Kg wet	3.33		51.6	30-130			
Surrogate: p-Terphenyl-d14	1.88		mg/Kg wet	3.33		56.3	30-130			

LCS Dup (B210576-BSD1)

Prepared: 08/17/18 Analyzed: 08/18/18

Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140	28.9	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	32.1	* 30	R-05
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	35.0	* 30	R-05
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	39.5	* 30	R-05
Chrysene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	27.6	30	
Dibenz(a,h)anthracene	0.885	0.17	mg/Kg wet	1.67		53.1	40-140	4.39	30	
Indeno(1,2,3-cd)pyrene	0.875	0.17	mg/Kg wet	1.67		52.5	40-140	9.79	30	
Surrogate: Nitrobenzene-d5	2.08		mg/Kg wet	3.33		62.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: p-Terphenyl-d14	2.47		mg/Kg wet	3.33		74.2	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210574 - SW-846 3546										
Blank (B210574-BLK1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
LCS (B210574-BS1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
alpha-BHC	0.066	0.0050	mg/Kg wet	0.100		65.8	40-140			
alpha-BHC [2C]	0.066	0.0050	mg/Kg wet	0.100		65.7	40-140			
Surrogate: Decachlorobiphenyl	0.128		mg/Kg wet	0.200		63.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.125		mg/Kg wet	0.200		62.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.135		mg/Kg wet	0.200		67.3	30-150			
LCS Dup (B210574-BSD1)										
Prepared: 08/17/18 Analyzed: 08/18/18										
alpha-BHC	0.077	0.0050	mg/Kg wet	0.100		77.0	40-140	15.7	30	
alpha-BHC [2C]	0.078	0.0050	mg/Kg wet	0.100		77.8	40-140	17.0	30	
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			

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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 B210597 - SW-846 3050B										
Blank (B210597-BLK1)					Prepared: 08/18/18 Analyzed: 08/20/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B210597-BS1)					Prepared: 08/18/18 Analyzed: 08/20/18					
Chromium	133	0.99	mg/Kg wet	136		98.0	82.4-117.6			
LCS Dup (B210597-BSD1)					Prepared: 08/18/18 Analyzed: 08/20/18					
Chromium	132	1.0	mg/Kg wet	136		96.8	82.4-117.6	1.18	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210593 - % Solids

Duplicate (B210593-DUP3)

Source: 18H0884-01

Prepared: 08/18/18 Analyzed: 08/19/18

% Solids	82.8		% Wt		84.0			1.47	20	
----------	------	--	------	--	------	--	--	------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S026384-PEM1 **Analyzed:** 08/18/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.61
Endrin [1]	2.44

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.58
Endrin [2]	2.45

BREAKDOWN REPORT

Lab Sample ID: S026384-PEM2 **Analyzed:** 08/18/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.59
Endrin [1]	2.08

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.59
Endrin [2]	2.12

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8081B

Lab Sample ID: B210574-BS1 Date(s) Analyzed 08/18/2018 08/18/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.518	5.488	5.548	0.066	
	2	5.495	5.465	5.525	0.066	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8081B

Lab Sample ID: B210574-BSD1 Date(s) Analyzed 08/18/2018 08/18/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.518	5.488	5.548	0.077	
	2	5.496	5.465	5.525	0.078	1.3

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188

Project Name: NYSDEC Saranac Lake Gas Co.
Saranac Lake OU_3

Project Number: Matthew Warren
Con-Test Quote Name/Number: miw@land-remediation.com

Invoice Recipient: Kyle Jones
Sampled By:

Requested Turnaround Time: 7-Day 10-Day
Due Date: Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
Format: PDF EXCEL
Other: CAT B - Equis
CLP Like Data Pkg Required:
Email To: miw@land-remediation.com
Fax To #: kji@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU2-Soil -152/ Side wall	8/16/2018 14:22	8/16/2018 14:27 X		S	L	X
02	OU2-Soil -153/Side wall	8/16/2018 14:33	8/16/2018 14:38 X		S	L	X

Comments: LRI Personnell - Attached

Only report analytes shown on Table 4-1 (Attached for reference).

Relinquished by: (signature)	Date/Time: 8/17/18 9:50
Received by: (signature)	Date/Time: 8-17-18 8:50 AM
Relinquished by: (signature)	Date/Time: 8-17-18 1:30P
Received by: (signature)	Date/Time: 8/17/18 1:30P
Relinquished by: (signature)	Date/Time: 11/17/18
Received by: (signature)	Date/Time: 3:00 8/17/18 1:45

3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
V	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ANALYSIS REQUESTED																					
Pesticides																					
SVOC 8260																					
VOC 8270																					
Chromium-6010																					

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)

PCB ONLY

- Soxhlet
- Non Soxhlet

Deliverables: Enhanced Data Package NYSDEC EQuIS EDD EQuIS (Standard) EDD NY Regulatory EDD NY Regs Hits-Only EDD

Program & Regulatory Information: NY TOGS NYC Sewer Discharge Part 360 GW (Landfill) NY Restricted Use NY Unrestricted Use NY Part 375

Project Entity: Government Federal City Municipality 21 J Brownfield Other: MWRA WRTA School MBTA Chromatogram AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By RLF Date 8/17/18 Time 1415

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 - 3.6°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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Jaime

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>2</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>4</u>	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:

August 31, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1345

Enclosed are results of analyses for samples received by the laboratory on August 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1345

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-Soil-149-SLP	18H1345-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-148-SLP	18H1345-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-138-Bot	18H1345-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-146-SLP	18H1345-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-139-Bot	18H1345-05	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-150-SLP	18H1345-06	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU2-Soil-151-SLP	18H1345-07	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

SW-846 8081B

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

alpha-BHC

B211301-MS1, B211301-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-149-SLP

Sample ID: 18H1345-01

Start Date/Time: 8/27/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:27:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.14	0.018	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:31	EEH
o-Xylene	ND	0.072	0.0094	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:31	EEH
Xylenes (total)	ND	0.22	0.027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 9:31	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual			Date Prepared	Date/Time Analyzed	Analyst
1,2-Dichloroethane-d4	92.6		70-130					8/29/18	8/29/18 9:31	
Toluene-d8	101		70-130					8/29/18	8/29/18 9:31	
4-Bromofluorobenzene	97.7		70-130					8/29/18	8/29/18 9:31	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-149-SLP

Sample ID: 18H1345-01

Start Date/Time: 8/27/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:27:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.27	0.071	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Benzo(a)pyrene	ND	0.27	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Benzo(b)fluoranthene	ND	0.27	0.076	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Benzo(k)fluoranthene	ND	0.27	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Chrysene	ND	0.27	0.084	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Dibenz(a,h)anthracene	ND	0.27	0.16	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT
Indeno(1,2,3-cd)pyrene	ND	0.27	0.19	mg/Kg dry	1		SW-846 8270D	8/28/18	8/30/18 1:08	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	49.0	30-130	
2-Fluorobiphenyl	47.2	30-130	
p-Terphenyl-d14	57.8	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-149-SLP

Sample ID: 18H1345-01

Start Date/Time: 8/27/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:27:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0075	0.00060	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:20	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.7		30-150						8/29/18 10:20	
Decachlorobiphenyl [2]	62.4		30-150						8/29/18 10:20	
Tetrachloro-m-xylene [1]	78.0		30-150						8/29/18 10:20	
Tetrachloro-m-xylene [2]	71.5		30-150						8/29/18 10:20	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-149-SLP

Sample ID: 18H1345-01

Start Date/Time: 8/27/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:27:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	3.4	0.52	0.32	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:26	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-149-SLP

Sample ID: 18H1345-01

Start Date/Time: 8/27/2018 2:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:27:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.1		% Wt	1		SM 2540G	8/28/18	8/29/18 11:11	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-148-SLP

Sample ID: 18H1345-02

Start Date/Time: 8/27/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:38:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:22	MF
o-Xylene	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:22	MF
Xylenes (total)	ND	0.0056		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:22	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	107	70-130		8/29/18 6:22
Toluene-d8	100	70-130		8/29/18 6:22
4-Bromofluorobenzene	90.0	70-130		8/29/18 6:22

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-148-SLP

Sample ID: 18H1345-02

Start Date/Time: 8/27/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:38:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Benzo(b)fluoranthene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 19:56	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	59.0	30-130	
2-Fluorobiphenyl	58.4	30-130	
p-Terphenyl-d14	75.7	30-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-148-SLP

Sample ID: 18H1345-02

Start Date/Time: 8/27/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:38:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 10:47	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.2		30-150						8/29/18 10:47	
Decachlorobiphenyl [2]	80.5		30-150						8/29/18 10:47	
Tetrachloro-m-xylene [1]	92.8		30-150						8/29/18 10:47	
Tetrachloro-m-xylene [2]	86.3		30-150						8/29/18 10:47	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-148-SLP

Sample ID: 18H1345-02

Start Date/Time: 8/27/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:38:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.6	0.37	0.23	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:31	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-148-SLP

Sample ID: 18H1345-02

Start Date/Time: 8/27/2018 2:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 2:38:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	8/28/18	8/29/18 11:12	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-138-Bot

Sample ID: 18H1345-03

Start Date/Time: 8/27/2018 2:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:01:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:49	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:49	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 6:49	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.0	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-138-Bot

Sample ID: 18H1345-03

Start Date/Time: 8/27/2018 2:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:01:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:25	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	65.0	30-130	
2-Fluorobiphenyl	64.2	30-130	
p-Terphenyl-d14	84.0	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-138-Bot

Sample ID: 18H1345-03

Start Date/Time: 8/27/2018 2:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:01:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:15	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.5		30-150						8/29/18 11:15	
Decachlorobiphenyl [2]	88.1		30-150						8/29/18 11:15	
Tetrachloro-m-xylene [1]	99.1		30-150						8/29/18 11:15	
Tetrachloro-m-xylene [2]	93.9		30-150						8/29/18 11:15	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-138-Bot

Sample ID: 18H1345-03

Start Date/Time: 8/27/2018 2:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:01:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.8	0.34	0.21	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:36	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-138-Bot

Sample ID: 18H1345-03

Start Date/Time: 8/27/2018 2:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 3:01:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	8/28/18	8/29/18 11:12	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-146-SLP

Sample ID: 18H1345-04

Start Date/Time: 8/27/2018 4:29:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:16	MF
o-Xylene	ND	0.0014	0.00047	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:16	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:16	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual			Date Prepared	Date/Time Analyzed	Analyst
1,2-Dichloroethane-d4	106		70-130					8/29/18	8/29/18 7:16	
Toluene-d8	99.6		70-130					8/29/18	8/29/18 7:16	
4-Bromofluorobenzene	96.3		70-130					8/29/18	8/29/18 7:16	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-146-SLP

Sample ID: 18H1345-04

Start Date/Time: 8/27/2018 4:29:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:33:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 20:54	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	45.5	30-130	
2-Fluorobiphenyl	45.8	30-130	
p-Terphenyl-d14	58.0	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-146-SLP

Sample ID: 18H1345-04

Start Date/Time: 8/27/2018 4:29:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:33:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0061	0.00049	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 11:43	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.8		30-150						8/29/18 11:43	
Decachlorobiphenyl [2]	76.0		30-150						8/29/18 11:43	
Tetrachloro-m-xylene [1]	85.2		30-150						8/29/18 11:43	
Tetrachloro-m-xylene [2]	80.2		30-150						8/29/18 11:43	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-146-SLP

Sample ID: 18H1345-04

Start Date/Time: 8/27/2018 4:29:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:33:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	6.1	0.40	0.25	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:41	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-146-SLP

Sample ID: 18H1345-04

Start Date/Time: 8/27/2018 4:29:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:33:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.9		% Wt	1		SM 2540G	8/28/18	8/29/18 11:12	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-139-Bot

Sample ID: 18H1345-05

Start Date/Time: 8/27/2018 4:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:43	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:43	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 7:43	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-139-Bot

Sample ID: 18H1345-05

Start Date/Time: 8/27/2018 4:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:23	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	61.9	30-130	
2-Fluorobiphenyl	61.5	30-130	
p-Terphenyl-d14	70.9	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-139-Bot

Sample ID: 18H1345-05

Start Date/Time: 8/27/2018 4:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:10	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.5		30-150						8/29/18 12:10	
Decachlorobiphenyl [2]	76.0		30-150						8/29/18 12:10	
Tetrachloro-m-xylene [1]	85.6		30-150						8/29/18 12:10	
Tetrachloro-m-xylene [2]	80.3		30-150						8/29/18 12:10	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-139-Bot

Sample ID: 18H1345-05

Start Date/Time: 8/27/2018 4:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:10:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	0.87	0.38	0.24	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:47	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-139-Bot

Sample ID: 18H1345-05

Start Date/Time: 8/27/2018 4:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:10:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	8/28/18	8/29/18 11:12	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-150-SLP

Sample ID: 18H1345-06

Start Date/Time: 8/27/2018 3:59:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:03:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:10	MF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:10	MF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:10	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	107	70-130		8/29/18 8:10
Toluene-d8	99.3	70-130		8/29/18 8:10
4-Bromofluorobenzene	101	70-130		8/29/18 8:10

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-150-SLP

Sample ID: 18H1345-06

Start Date/Time: 8/27/2018 3:59:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:03:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 21:52	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	56.4	30-130	
2-Fluorobiphenyl	57.8	30-130	
p-Terphenyl-d14	75.9	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-150-SLP

Sample ID: 18H1345-06

Start Date/Time: 8/27/2018 3:59:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:03:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0058	0.00046	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 12:38	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.0		30-150						8/29/18 12:38	
Decachlorobiphenyl [2]	76.4		30-150						8/29/18 12:38	
Tetrachloro-m-xylene [1]	84.7		30-150						8/29/18 12:38	
Tetrachloro-m-xylene [2]	81.3		30-150						8/29/18 12:38	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-150-SLP

Sample ID: 18H1345-06

Start Date/Time: 8/27/2018 3:59:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:03:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	2.2	0.39	0.24	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:53	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-150-SLP

Sample ID: 18H1345-06

Start Date/Time: 8/27/2018 3:59:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:03:00PM

Conventional 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	8/28/18	8/29/18 11:12	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-151-SLP

Sample ID: 18H1345-07

Start Date/Time: 8/27/2018 4:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:28:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:38	MF
o-Xylene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:38	MF
Xylenes (total)	ND	0.0049		mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 8:38	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual			Date Prepared	Date/Time Analyzed	
1,2-Dichloroethane-d4	106		70-130					8/29/18	8:38	
Toluene-d8	102		70-130					8/29/18	8:38	
4-Bromofluorobenzene	98.6		70-130					8/29/18	8:38	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-151-SLP

Sample ID: 18H1345-07

Start Date/Time: 8/27/2018 4:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:28:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/28/18	8/29/18 22:20	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	68.5	30-130	
2-Fluorobiphenyl	67.3	30-130	
p-Terphenyl-d14	81.7	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-151-SLP

Sample ID: 18H1345-07

Start Date/Time: 8/27/2018 4:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:28:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-BHC [2]	ND	0.0054	0.00044	mg/Kg dry	1		SW-846 8081B	8/28/18	8/29/18 13:06	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.1		30-150						8/29/18 13:06	
Decachlorobiphenyl [2]	74.8		30-150						8/29/18 13:06	
Tetrachloro-m-xylene [1]	82.2		30-150						8/29/18 13:06	
Tetrachloro-m-xylene [2]	78.5		30-150						8/29/18 13:06	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-151-SLP

Sample ID: 18H1345-07

Start Date/Time: 8/27/2018 4:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:28:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	1.7	0.37	0.23	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:12	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1345

Date Received: 8/28/2018

Field Sample #: OU2-Soil-151-SLP

Sample ID: 18H1345-07

Start Date/Time: 8/27/2018 4:24:00PM

Sample Matrix: Soil

Stop Date/Time: 8/27/2018 4:28:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	8/28/18	8/29/18 11:12	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1345-01 [OU2-Soil-149-SLP]	B211302	08/28/18
18H1345-02 [OU2-Soil-148-SLP]	B211302	08/28/18
18H1345-03 [OU2-Soil-138-Bot]	B211302	08/28/18
18H1345-04 [OU2-Soil-146-SLP]	B211302	08/28/18
18H1345-05 [OU2-Soil-139-Bot]	B211302	08/28/18
18H1345-06 [OU2-Soil-150-SLP]	B211302	08/28/18
18H1345-07 [OU2-Soil-151-SLP]	B211302	08/28/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1345-01 [OU2-Soil-149-SLP]	B211296	1.53	50.0	08/28/18
18H1345-02 [OU2-Soil-148-SLP]	B211296	1.50	50.0	08/28/18
18H1345-03 [OU2-Soil-138-Bot]	B211296	1.56	50.0	08/28/18
18H1345-04 [OU2-Soil-146-SLP]	B211296	1.55	50.0	08/28/18
18H1345-05 [OU2-Soil-139-Bot]	B211296	1.52	50.0	08/28/18
18H1345-06 [OU2-Soil-150-SLP]	B211296	1.55	50.0	08/28/18
18H1345-07 [OU2-Soil-151-SLP]	B211296	1.56	50.0	08/28/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1345-01 [OU2-Soil-149-SLP]	B211301	10.6	10.0	08/28/18
18H1345-02 [OU2-Soil-148-SLP]	B211301	10.0	10.0	08/28/18
18H1345-03 [OU2-Soil-138-Bot]	B211301	10.0	10.0	08/28/18
18H1345-04 [OU2-Soil-146-SLP]	B211301	10.2	10.0	08/28/18
18H1345-05 [OU2-Soil-139-Bot]	B211301	10.6	10.0	08/28/18
18H1345-06 [OU2-Soil-150-SLP]	B211301	10.3	10.0	08/28/18
18H1345-07 [OU2-Soil-151-SLP]	B211301	10.5	10.0	08/28/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H1345-01 [OU2-Soil-149-SLP]	B211330	9.31	8.44	1	50	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1345-02 [OU2-Soil-148-SLP]	B211345	5.94	10.0	08/29/18
18H1345-03 [OU2-Soil-138-Bot]	B211345	7.58	10.0	08/29/18
18H1345-04 [OU2-Soil-146-SLP]	B211345	9.27	10.0	08/29/18
18H1345-05 [OU2-Soil-139-Bot]	B211345	7.84	10.0	08/29/18
18H1345-06 [OU2-Soil-150-SLP]	B211345	6.18	10.0	08/29/18
18H1345-07 [OU2-Soil-151-SLP]	B211345	6.96	10.0	08/29/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1345-01 [OU2-Soil-149-SLP]	B211245	30.1	1.00	08/28/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1345-02 [OU2-Soil-148-SLP]	B211245	30.5	1.00	08/28/18
18H1345-03 [OU2-Soil-138-Bot]	B211245	30.1	1.00	08/28/18
18H1345-04 [OU2-Soil-146-SLP]	B211245	30.4	1.00	08/28/18
18H1345-05 [OU2-Soil-139-Bot]	B211245	30.0	1.00	08/28/18
18H1345-06 [OU2-Soil-150-SLP]	B211245	30.0	1.00	08/28/18
18H1345-07 [OU2-Soil-151-SLP]	B211245	30.1	1.00	08/28/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211330 - SW-846 5030B										
Blank (B211330-BLK1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.0030	mg/Kg wet				80-120		25	
Surrogate: 1,2-Dichloroethane-d4	0.0263		mg/Kg wet	0.0250		105	70-130			
Surrogate: Toluene-d8	0.0248		mg/Kg wet	0.0250		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		97.9	70-130			
LCS (B211330-BS1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	0.0248	0.0023	mg/Kg wet	0.0227		109	70-130			
o-Xylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Xylenes (total)	0.0374	0.0034	mg/Kg wet	0.0340		110	80-120		25	
Surrogate: 1,2-Dichloroethane-d4	0.0261		mg/Kg wet	0.0283		92.1	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0283		mg/Kg wet	0.0283		99.8	70-130			
LCS Dup (B211330-BSD1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	0.0252	0.0023	mg/Kg wet	0.0227		111	70-130	1.68	25	
o-Xylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	1.82	25	
Xylenes (total)	0.0375	0.0034	mg/Kg wet	0.0340		110	80-120	0.514	25	
Surrogate: 1,2-Dichloroethane-d4	0.0321		mg/Kg wet	0.0283		113	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			
Batch B211345 - SW-846 5035										
Blank (B211345-BLK1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			
LCS (B211345-BS1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0526		mg/Kg wet	0.0500		105	70-130			
LCS Dup (B211345-BSD1)										
Prepared & Analyzed: 08/29/18										
m+p Xylene	0.0359	0.0040	mg/Kg wet	0.0400		89.6	70-130	12.2	25	
o-Xylene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130	21.8	25	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0543		mg/Kg wet	0.0500		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0461		mg/Kg wet	0.0500		92.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211245 - SW-846 3546										
Blank (B211245-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
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(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg wet	3.33		79.9	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.8	30-130			
LCS (B211245-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(a)pyrene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.3	30-130			
Surrogate: p-Terphenyl-d14	3.33		mg/Kg wet	3.33		99.9	30-130			
LCS Dup (B211245-BSD1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	0.0250	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140	1.97	30	
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	1.24	30	
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	1.29	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	3.13	30	
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	2.59	30	
Indeno(1,2,3-cd)pyrene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140	2.81	30	
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.76		mg/Kg wet	3.33		82.7	30-130			
Surrogate: p-Terphenyl-d14	3.27		mg/Kg wet	3.33		98.0	30-130			
Matrix Spike (B211245-MS1)										
Source: 18H1345-02 Prepared: 08/28/18 Analyzed: 08/29/18										
Benzo(a)anthracene	1.16	0.19	mg/Kg dry	1.84	ND	63.4	40-140			
Benzo(a)pyrene	1.22	0.19	mg/Kg dry	1.84	ND	66.2	40-140			
Benzo(b)fluoranthene	1.08	0.19	mg/Kg dry	1.84	ND	58.7	40-140			
Benzo(k)fluoranthene	1.14	0.19	mg/Kg dry	1.84	ND	62.1	40-140			
Chrysene	1.13	0.19	mg/Kg dry	1.84	ND	61.6	40-140			
Dibenz(a,h)anthracene	1.08	0.19	mg/Kg dry	1.84	ND	59.1	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.19	mg/Kg dry	1.84	ND	70.4	40-140			
Surrogate: Nitrobenzene-d5	2.27		mg/Kg dry	3.67		61.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg dry	3.67		65.8	30-130			
Surrogate: p-Terphenyl-d14	2.89		mg/Kg dry	3.67		78.8	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211245 - SW-846 3546

Matrix Spike Dup (B211245-MSD1)

Source: 18H1345-02

Prepared: 08/28/18 Analyzed: 08/29/18

Benzo(a)anthracene	1.02	0.19	mg/Kg dry	1.84	ND	55.8	40-140	12.8	30	
Benzo(a)pyrene	1.04	0.19	mg/Kg dry	1.84	ND	56.8	40-140	15.4	30	
Benzo(b)fluoranthene	0.909	0.19	mg/Kg dry	1.84	ND	49.5	40-140	16.9	30	
Benzo(k)fluoranthene	0.985	0.19	mg/Kg dry	1.84	ND	53.7	40-140	14.5	30	
Chrysene	0.988	0.19	mg/Kg dry	1.84	ND	53.8	40-140	13.4	30	
Dibenz(a,h)anthracene	0.952	0.19	mg/Kg dry	1.84	ND	51.9	40-140	12.9	30	
Indeno(1,2,3-cd)pyrene	1.13	0.19	mg/Kg dry	1.84	ND	61.5	40-140	13.4	30	
Surrogate: Nitrobenzene-d5	2.10		mg/Kg dry	3.67		57.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg dry	3.67		57.0	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/Kg dry	3.67		68.3	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211301 - SW-846 3546										
Blank (B211301-BLK1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0842		mg/Kg wet	0.200		42.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0792		mg/Kg wet	0.200		39.6	30-150			
LCS (B211301-BS1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
alpha-BHC	0.056	0.0050	mg/Kg wet	0.100		56.0	40-140			
alpha-BHC [2C]	0.054	0.0050	mg/Kg wet	0.100		53.7	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg wet	0.200		54.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg wet	0.200		50.3	30-150			
LCS Dup (B211301-BSD1)										
Prepared: 08/28/18 Analyzed: 08/29/18										
alpha-BHC	0.046	0.0050	mg/Kg wet	0.100		45.7	40-140	20.4	30	
alpha-BHC [2C]	0.045	0.0050	mg/Kg wet	0.100		44.5	40-140	18.7	30	
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.0879		mg/Kg wet	0.200		44.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0826		mg/Kg wet	0.200		41.3	30-150			
Matrix Spike (B211301-MS1)										
Source: 18H1345-01 Prepared: 08/28/18 Analyzed: 08/29/18										
alpha-BHC	0.091	0.0078	mg/Kg dry	0.157	ND	57.9	30-150			V-06
alpha-BHC [2C]	0.078	0.0078	mg/Kg dry	0.157	ND	50.0	30-150			
Surrogate: Decachlorobiphenyl	0.227		mg/Kg dry	0.314		72.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg dry	0.314		57.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.221		mg/Kg dry	0.314		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		mg/Kg dry	0.314		65.5	30-150			
Matrix Spike Dup (B211301-MSD1)										
Source: 18H1345-01 Prepared: 08/28/18 Analyzed: 08/29/18										
alpha-BHC	0.10	0.0079	mg/Kg dry	0.158	ND	64.4	30-150	11.7	30	V-06
alpha-BHC [2C]	0.087	0.0079	mg/Kg dry	0.158	ND	54.8	30-150	10.1	30	
Surrogate: Decachlorobiphenyl	0.273		mg/Kg dry	0.317		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg dry	0.317		67.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.262		mg/Kg dry	0.317		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.240		mg/Kg dry	0.317		75.8	30-150			

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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 B211296 - SW-846 3050B										
Blank (B211296-BLK1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Chromium	ND	0.33	mg/Kg wet							
LCS (B211296-BS1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Chromium	140	0.99	mg/Kg wet	136		103	82.4-117.6			
LCS Dup (B211296-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Chromium	137	0.99	mg/Kg wet	136		101	82.4-117.6	2.38	30	
Duplicate (B211296-DUP1)										
					Source: 18H1345-07					
					Prepared: 08/28/18 Analyzed: 08/29/18					
Chromium	1.72	0.37	mg/Kg dry			1.73		0.175	35	
Matrix Spike (B211296-MS1)										
					Source: 18H1345-07					
					Prepared: 08/28/18 Analyzed: 08/29/18					
Chromium	17.5	0.37	mg/Kg dry	18.7		1.73	84.7	75-125		

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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 B211302 - % Solids

Duplicate (B211302-DUP8)

Source: 18H1345-01

Prepared: 08/28/18 Analyzed: 08/29/18

% Solids	56.3		% Wt		63.1			11.4	20	
----------	------	--	------	--	------	--	--	------	----	--

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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.61
Endrin [1] 1.47

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 2.41

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.68
Endrin [1] 1.26

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.27
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.67
Endrin [1] 1.16

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BREAKDOWN REPORT

Lab Sample ID: S026713-PEM3 **Analyzed:** 08/28/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.24
Endrin [2] 1.91

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM4 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.49
Endrin [1] 2.76

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.67
Endrin [2] 3.71

BREAKDOWN REPORT

Lab Sample ID: S026713-PEM5 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 1.72

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.14
Endrin [2] 2.68

BREAKDOWN REPORT

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

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.11
Endrin [1] 3.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.21
Endrin [2] 3.80

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.83
Endrin [1] 3.38

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.95
Endrin [2] 3.44

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 3.36

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.14
Endrin [2]	3.83

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM4 **Analyzed:** 08/29/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.06
Endrin [1]	3.43

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.21
Endrin [2]	3.41

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8081B*Lab Sample ID: B211301-BS1 Date(s) Analyzed 08/29/2018 08/29/2018Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.578	5.549	5.609	0.056	
	2	5.444	5.415	5.475	0.054	3.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B211301-BSD1 Date(s) Analyzed 08/29/2018 08/29/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.578	5.549	5.609	0.046	
	2	5.445	5.415	5.475	0.045	2.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B211301-MS1 Date(s) Analyzed 08/29/2018 08/29/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.500	5.471	5.531	0.091	
	2	5.484	5.455	5.515	0.078	15.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B211301-MSD1 Date(s) Analyzed 08/29/2018 08/29/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	5.499	5.471	5.531	0.10	
	2	5.484	5.455	5.515	0.087	13.9

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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.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Chromium	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ADD



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: LAND Remediation

Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: Saranac Lake OU_3

Project Number: Matthew Warren

Project Manager: Matthew Warren

Con-Test Quote Name/Number: miw@land-remediation.com

Invoice Recipient: miw@land-remediation.com

Sampled By: Ethan Bradt

Doc # 380 Rev 1_03242017

39 Spruce Street
 East Longmeadow, MA 01028

Page _____ of _____

Requested Turnaround Time: 7-Day 10-Day

Due Date: _____

Rush Approval Required: 1-Day 3-Day

2-Day 4-Day

Data Delivery: PDF EXCEL

Other: CAT B - Equis

CLP Like Data Pkg Required:

Email To: miw@land-remediation.com

Fax To #: jkl@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU2-Soil-149-SLP	8/27/2018 14:22	8/27/2018 14:27		X	S	L
2	OU2-Soil-148-SLP	8/27/2018 14:33	8/27/2018 14:38		X	S	L
3	OU2-Soil-138-Bot	8/27/2018 14:57	8/27/2018 15:01		X	S	L
4	OU2-Soil-146-SLP	8/27/2018 16:29	8/27/2018 16:33		X	S	L
5	OU2-Soil-139-Bot	8/27/2018 16:05	8/27/2018 16:10		X	S	L
6	OU2-Soil-150-SLP	8/27/2018 15:59	8/27/2018 16:03		X	S	L
7	OU2-Soil-151-SLP	8/27/2018 16:24	8/27/2018 16:28		X	S	L

Comments: LRI Personnell - Attached

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

Only report analytes shown on Table 4-1 (Attached for reference).

Relinquished by: (signature)	Date/Time: 8/28/18 9:00
Received by: (signature)	Date/Time: 8-28-18 9:00
Relinquished by: (signature)	Date/Time: 8-28-18 13:20
Received by: (signature)	Date/Time: 8-28-18 13:20
Relinquished by: (signature)	Date/Time: 8-28-18 14:05
Received by: (signature)	Date/Time: 8-28-18 14:25

of Containers: _____

Preservation Code: _____

Container Code: _____

Dissolved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

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

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

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

ANALYSIS REQUESTED

Chromium - 6010

Pesticides

SVOC 8260

VOC 8270



Deliverables

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Program B Regulatory Information

AWQ STDS

NYC Sewer Discharge

Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part. 375

NY TOGS

NY CP-51

Project Entity

Government

Federal

City

Municipality

21 J

Brownfield

MWR

School

MBTA

WRTA

Chromatogram

AHA-LAP, LLC

Other: _____

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Liny Pemp, 9+10h

Received By ESD Date 8-28-18 Time 14:25

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 # 533 Actual Temp - 9.3, 9.2
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

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____
Who was notified? mark, Ruy, Eric
Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials		Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-	7	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-	19	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:

August 6, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0009

Enclosed are results of analyses for samples received by the laboratory on August 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/6/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0009

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED5	18H0009-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED6	18H0009-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08-06-18: The 8270 results have been revised to remove dibenzo (a,h) anthracene and add naphthalene and the metals results have been revised to remove chromium and report lead and zinc per table 4.3.

Form method 8270 only a select list was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED5

Sample ID: 18H0009-01

Start Date/Time: 7/31/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 12:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
Naphthalene	ND	0.0028	0.00048	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:27	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.7	70-130	
Toluene-d8	94.4	70-130	
4-Bromofluorobenzene	95.2	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED5

Sample ID: 18H0009-01

Start Date/Time: 7/31/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 12:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Pyrene	0.084	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/1/18	8/2/18 11:44	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	74.6		30-130				8/2/18 11:44			
2-Fluorobiphenyl	73.4		30-130				8/2/18 11:44			
p-Terphenyl-d14	87.0		30-130				8/2/18 11:44			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED5

Sample ID: 18H0009-01

Start Date/Time: 7/31/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 12:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/1/18	8/2/18 5:56	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/1/18	8/2/18 5:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.1	30-150					8/2/18 5:56	
Decachlorobiphenyl [2]		90.9	30-150					8/2/18 5:56	
Tetrachloro-m-xylene [1]		99.9	30-150					8/2/18 5:56	
Tetrachloro-m-xylene [2]		89.3	30-150					8/2/18 5:56	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED5

Sample ID: 18H0009-01

Start Date/Time: 7/31/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 12:00:00PM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.3	0.62	mg/Kg dry	1		SW-846 6010D	8/1/18	8/2/18 12:39	MJH
Zinc	11	0.83	mg/Kg dry	1		SW-846 6010D	8/1/18	8/2/18 12:39	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED5

Sample ID: 18H0009-01

Start Date/Time: 7/31/2018 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 12:00:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	8/1/18	8/2/18 16:17	DMP

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED6

Sample ID: 18H0009-02

Start Date/Time: 7/31/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 4:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
Naphthalene	ND	0.0036	0.00063	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
1,2,4-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF
Xylenes (total)	ND	0.0054		mg/Kg dry	1		SW-846 8260C	8/1/18	8/1/18 15:54	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.3	70-130	
Toluene-d8	93.9	70-130	
4-Bromofluorobenzene	96.2	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED6

Sample ID: 18H0009-02

Start Date/Time: 7/31/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 4:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Benzo(a)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Benzo(a)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Benzo(b)fluoranthene	0.065	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Benzo(g,h,i)perylene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Chrysene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Fluoranthene	0.073	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Fluorene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Pyrene	0.12	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	8/1/18	8/2/18 12:13	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	70.2		30-130				8/2/18 12:13			
2-Fluorobiphenyl	67.7		30-130				8/2/18 12:13			
p-Terphenyl-d14	81.4		30-130				8/2/18 12:13			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED6

Sample ID: 18H0009-02

Start Date/Time: 7/31/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 4:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/1/18	8/2/18 7:23	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	8/1/18	8/2/18 7:23	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	88.5		30-150				8/2/18 7:23		
Decachlorobiphenyl [2]	89.8		30-150				8/2/18 7:23		
Tetrachloro-m-xylene [1]	94.9		30-150				8/2/18 7:23		
Tetrachloro-m-xylene [2]	91.5		30-150				8/2/18 7:23		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED6

Sample ID: 18H0009-02

Start Date/Time: 7/31/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 4:20:00PM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.8	0.60	mg/Kg dry	1		SW-846 6010D	8/1/18	8/2/18 12:44	MJH
Zinc	15	0.80	mg/Kg dry	1		SW-846 6010D	8/1/18	8/2/18 12:44	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0009

Date Received: 8/1/2018

Field Sample #: OU3-SED6

Sample ID: 18H0009-02

Start Date/Time: 7/31/2018 3:50:00PM

Sample Matrix: Soil

Stop Date/Time: 7/31/2018 4:20:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	8/1/18	8/2/18 16:17	DMP

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0009-01 [OU3-SED5]	B209293	08/01/18
18H0009-02 [OU3-SED6]	B209293	08/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0009-01 [OU3-SED5]	B209292	1.48	50.0	08/01/18
18H0009-02 [OU3-SED6]	B209292	1.59	50.0	08/01/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0009-01 [OU3-SED5]	B209264	10.4	10.0	08/01/18
18H0009-02 [OU3-SED6]	B209264	10.5	10.0	08/01/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0009-01 [OU3-SED5]	B209271	8.95	10.0	08/01/18
18H0009-02 [OU3-SED6]	B209271	7.03	10.0	08/01/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0009-01 [OU3-SED5]	B209262	30.2	1.00	08/01/18
18H0009-02 [OU3-SED6]	B209262	30.1	1.00	08/01/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209271 - SW-846 5030B										
Blank (B209271-BLK1)										
Prepared & Analyzed: 08/01/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0434		mg/Kg wet	0.0500		86.9	70-130			
Surrogate: Toluene-d8	0.0466		mg/Kg wet	0.0500		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0480		mg/Kg wet	0.0500		96.0	70-130			
LCS (B209271-BS1)										
Prepared & Analyzed: 08/01/18										
Ethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
Naphthalene	0.0219	0.0040	mg/Kg wet	0.0200		110	40-130			†
1,2,4-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0418		mg/Kg wet	0.0500		83.6	70-130			
Surrogate: Toluene-d8	0.0471		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/Kg wet	0.0500		98.5	70-130			
LCS Dup (B209271-BSD1)										
Prepared & Analyzed: 08/01/18										
Ethylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	2.33	25	
Isopropylbenzene (Cumene)	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	4.80	25	
Naphthalene	0.0218	0.0040	mg/Kg wet	0.0200		109	40-130	0.439	25	†
1,2,4-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.673	25	
m+p Xylene	0.0413	0.0040	mg/Kg wet	0.0400		103	70-130	2.87	25	
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	3.46	25	
Surrogate: 1,2-Dichloroethane-d4	0.0433		mg/Kg wet	0.0500		86.7	70-130			
Surrogate: Toluene-d8	0.0471		mg/Kg wet	0.0500		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0487		mg/Kg wet	0.0500		97.4	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209262 - SW-846 3546

Blank (B209262-BLK1)

Prepared: 08/01/18 Analyzed: 08/02/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.59		mg/Kg wet	3.33		77.7	30-130			
Surrogate: p-Terphenyl-d14	3.13		mg/Kg wet	3.33		93.8	30-130			

LCS (B209262-BS1)

Prepared: 08/01/18 Analyzed: 08/02/18

Acenaphthene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140			
Acenaphthylene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140			
Benzo(a)pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(g,h,i)perylene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140			
Indeno(1,2,3-cd)pyrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Surrogate: Nitrobenzene-d5	2.71		mg/Kg wet	3.33		81.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.48		mg/Kg wet	3.33		74.3	30-130			
Surrogate: p-Terphenyl-d14	2.71		mg/Kg wet	3.33		81.3	30-130			

LCS Dup (B209262-BSD1)

Prepared: 08/01/18 Analyzed: 08/02/18

Acenaphthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	6.76	30	
Acenaphthylene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	6.22	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	7.77	30	
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	11.6	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	15.7	30	
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	16.0	30	
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	16.6	30	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	14.4	30	
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	11.1	30	
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	7.63	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	5.88	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	11.6	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 B209262 - SW-846 3546										
LCS Dup (B209262-BSD1)										
					Prepared: 08/01/18 Analyzed: 08/02/18					
Naphthalene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	4.37	30	
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	7.56	30	
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	12.9	30	
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		76.9	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		89.9	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209264 - SW-846 3546										
Blank (B209264-BLK1)										
Prepared: 08/01/18 Analyzed: 08/02/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.4	30-150			
LCS (B209264-BS1)										
Prepared: 08/01/18 Analyzed: 08/02/18										
4,4'-DDD	0.11	0.0040	mg/Kg wet	0.100		111	40-140			
4,4'-DDD [2C]	0.12	0.0040	mg/Kg wet	0.100		116	40-140			
Heptachlor Epoxide	0.10	0.0050	mg/Kg wet	0.100		100	40-140			
Heptachlor Epoxide [2C]	0.10	0.0050	mg/Kg wet	0.100		103	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			
LCS Dup (B209264-BSD1)										
Prepared: 08/01/18 Analyzed: 08/02/18										
4,4'-DDD	0.097	0.0040	mg/Kg wet	0.100		97.0	40-140	13.5	30	
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140	12.9	30	
Heptachlor Epoxide	0.089	0.0050	mg/Kg wet	0.100		89.2	40-140	11.4	30	
Heptachlor Epoxide [2C]	0.092	0.0050	mg/Kg wet	0.100		92.3	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.2	30-150			

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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 B209292 - SW-846 3050B										
Blank (B209292-BLK1)										
					Prepared: 08/01/18 Analyzed: 08/02/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B209292-BS1)										
					Prepared: 08/01/18 Analyzed: 08/02/18					
Lead	105	1.5	mg/Kg wet	111		95.0	83-117.1			
Zinc	195	2.0	mg/Kg wet	199		97.8	81.4-119.1			
LCS Dup (B209292-BSD1)										
					Prepared: 08/01/18 Analyzed: 08/02/18					
Lead	114	1.5	mg/Kg wet	111		103	83-117.1	7.87	30	
Zinc	203	2.0	mg/Kg wet	199		102	81.4-119.1	4.05	30	
MRL Check (B209292-MRL1)										
					Prepared: 08/01/18 Analyzed: 08/02/18					
Lead	0.515	0.50	mg/Kg wet	0.495		104	80-120			

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BREAKDOWN REPORT

Lab Sample ID: S025829-PEM1 **Analyzed:** 08/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.16
Endrin [1] 4.02

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.29
Endrin [2] 4.61

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM2 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.53
Endrin [1] 3.64

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.68
Endrin [2] 8.16

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM3 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.30
Endrin [1] 5.16

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BREAKDOWN REPORT

Lab Sample ID: S025829-PEM3 **Analyzed:** 08/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.42
Endrin [2] 5.66

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM4 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.48
Endrin [1] 3.88

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.61
Endrin [2] 4.07

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM5 **Analyzed:** 08/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.31
Endrin [1] 3.78

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.52
Endrin [2] 4.27

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B209264-BS1 Date(s) Analyzed: 08/02/2018 08/02/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.560	7.532	7.592	0.11	
	2	7.632	7.603	7.663	0.12	8.7
Heptachlor Epoxide	1	6.867	6.839	6.899	0.10	
	2	6.815	6.786	6.846	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B209264-BSD1 Date(s) Analyzed: 08/02/2018 08/02/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.560	7.532	7.592	0.097	
	2	7.632	7.603	7.663	0.10	3.1
Heptachlor Epoxide	1	6.868	6.839	6.899	0.089	
	2	6.816	6.786	6.846	0.092	3.3

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H0009



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number:
Project Manager: Matthew Warren

Con-Test Quote Name/Number:
Invoice Recipient: mjlw@land-remediation.com

Sampled By:

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Address: 74 Hudson River Road Waterford, New York 12188 Phone: 518-766-4105 Project Name: NYSDEC Saranac Lake Gas Co. Project Location: Saranac Lake OU_3 Project Number: Project Manager: Matthew Warren Con-Test Quote Name/Number: Invoice Recipient: mjlw@land-remediation.com Sampled By:		Requested Turnaround Time: 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Due Date: Rush Approval Required: 1-Day <input checked="" type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/> Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> Other: CAT B - Equis <input type="checkbox"/> CLP Like Data Pkg Required: <input type="checkbox"/> Email To: mjlw@land-remediation.com Fax To #: JKL@land-remediation.com	
Client Sample ID / Description OU3-SED-5 OU3-SED-6		Beginning Date/Time 7/31/2018 11:45 7/31/2018 15:50	
Ending Date/Time 7/31/2018 12:00 X 7/31/2018 16:20 X		Matrix Code S L S L	
Composite <input type="checkbox"/> <input type="checkbox"/>		Grab <input type="checkbox"/> <input type="checkbox"/>	
VOC 8270 VOC 8260 Metals 6010 Pesticides		ANALYSIS REQUESTED	
# of Containers Preservation Code Container Code		Dissolved Metals Samples <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter	
Ortho/Spot/Spec Samples <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter		Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	
Preservation Codes: I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)		Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)	
Comments: LRI Personnel - Attached		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	
Only report analytes shown on Table 4-3 (Attached for reference). Relinquished by: (signature) Date/Time: 7/31/2018 Received by: (signature) Date/Time: 8-1-2018 9:30am Relinquished by: (signature) Date/Time: 8-1-2018 1317 Received by: (signature) Date/Time: 8-1-2018 1317 Relinquished by: (signature) Date/Time: 8-1-2018 1317 Received by: (signature) Date/Time: 8-1-2018 1317		Program & Regulatory Information <input type="checkbox"/> AWQ STDS <input type="checkbox"/> NY TOGS <input type="checkbox"/> NYC Sewer Discharge <input type="checkbox"/> NY CP-51 <input type="checkbox"/> Part 360 GW (Landfill) <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NY Part 375	
Project Entity <input checked="" type="checkbox"/> Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> WRTA <input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School <input type="checkbox"/> MBTA <input type="checkbox"/> City <input type="checkbox"/> Brownfield		Deliverables <input type="checkbox"/> Enhanced Data Package <input checked="" type="checkbox"/> NYSDEC Equis EDD <input type="checkbox"/> Equis (Standard) EDD <input type="checkbox"/> NY Regulatory EDD <input type="checkbox"/> NY Regs Hits-Only EDD	
Other:		Other:	



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 LAND Remediation

Received By RAP Date 8/1/18 Time 1317

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 # 8 Actual Temp - 3.1
 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 F
 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? Day
 Are there Short Holds? F Who was notified?

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid Base

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

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Land Remediation

Project Location: Saranac Lake

Project Number: 18H0009

Laboratory Sample ID(s):

Sample Date(s):

18H0009-01 thru 18H0009-02

07/31/2018

List RCP Methods Used:

SW-846 6010D, SW-846 8081B, 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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."

Lisa A. Worthington

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 A. Worthington

Position: Project Manager

Printed Name: Lisa A. Worthington

Date: 08/06/18

Name of Laboratory: Con-Test Analytical Laboratory

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

August 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0098

Enclosed are results of analyses for samples received by the laboratory on August 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0098

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-7	18H0098-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-8	18H0098-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08-07-18: The metals results have been revised to include lead and zinc and remove chromium per table 4.3.

For method 8270, only PAHs were requested and reported.

SW-846 8260C**Qualifications:****PR-15**

According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

Analyte & Samples(s) Qualified:

18H0098-01[OU3-SED-7]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-7

Sample ID: 18H0098-01

Start Date/Time: 8/1/2018 3:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:00:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
Isopropylbenzene (Cumene)	ND	0.0028	0.00098	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
Naphthalene	ND	0.0056	0.00098	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
1,2,4-Trimethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
m+p Xylene	ND	0.0056	0.0024	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
o-Xylene	ND	0.0028	0.00098	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF
Xylenes (total)	ND	0.0084		mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:53	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.9	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	99.2	70-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-7

Sample ID: 18H0098-01

Start Date/Time: 8/1/2018 3:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Acenaphthylene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Anthracene	ND	0.22	0.064	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Benzo(a)pyrene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Benzo(g,h,i)perylene	ND	0.22	0.098	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Benzo(k)fluoranthene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Chrysene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Fluoranthene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Phenanthrene	ND	0.22	0.12	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 9:59	BGL
Pyrene	0.096	0.22	0.073	mg/Kg dry	1	J	SW-846 8270D	8/2/18	8/3/18 9:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	67.7	30-130	
2-Fluorobiphenyl	69.0	30-130	
p-Terphenyl-d14	75.4	30-130	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-7

Sample ID: 18H0098-01

Start Date/Time: 8/1/2018 3:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/2/18	8/3/18 10:58	TG
Heptachlor epoxide [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	8/2/18	8/3/18 10:58	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.9	30-150					8/3/18 10:58	
Decachlorobiphenyl [2]		90.6	30-150					8/3/18 10:58	
Tetrachloro-m-xylene [1]		99.6	30-150					8/3/18 10:58	
Tetrachloro-m-xylene [2]		83.3	30-150					8/3/18 10:58	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-7

Sample ID: 18H0098-01

Start Date/Time: 8/1/2018 3:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:00:00PM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.0	0.65	mg/Kg dry	1		SW-846 6010D	8/2/18	8/3/18 11:26	QNW
Zinc	19	0.86	mg/Kg dry	1		SW-846 6010D	8/2/18	8/3/18 11:26	QNW

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-7

Sample ID: 18H0098-01

Start Date/Time: 8/1/2018 3:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:00:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	8/2/18	8/3/18 7:04	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-8

Sample ID: 18H0098-02

Start Date/Time: 8/1/2018 4:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
Isopropylbenzene (Cumene)	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
Naphthalene	ND	0.0038	0.00066	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
1,2,4-Trimethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
o-Xylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF
Xylenes (total)	ND	0.0057		mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 8:25	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.2	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	98.7	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-8

Sample ID: 18H0098-02

Start Date/Time: 8/1/2018 4:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:50:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Benzo(b)fluoranthene	ND	0.22	0.061	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Benzo(g,h,i)perylene	ND	0.22	0.096	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Fluorene	ND	0.22	0.070	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	8/2/18	8/3/18 10:26	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		67.1	30-130						8/3/18 10:26	
2-Fluorobiphenyl		68.7	30-130						8/3/18 10:26	
p-Terphenyl-d14		79.8	30-130						8/3/18 10:26	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-8

Sample ID: 18H0098-02

Start Date/Time: 8/1/2018 4:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:50:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	8/2/18	8/3/18 11:26	TG
Heptachlor epoxide [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	8/2/18	8/3/18 11:26	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.5	30-150					8/3/18 11:26	
Decachlorobiphenyl [2]		84.1	30-150					8/3/18 11:26	
Tetrachloro-m-xylene [1]		86.8	30-150					8/3/18 11:26	
Tetrachloro-m-xylene [2]		76.4	30-150					8/3/18 11:26	

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-8

Sample ID: 18H0098-02

Start Date/Time: 8/1/2018 4:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:50:00PM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.3	0.64	mg/Kg dry	1		SW-846 6010D	8/2/18	8/3/18 11:31	QNW
Zinc	14	0.85	mg/Kg dry	1		SW-846 6010D	8/2/18	8/3/18 11:31	QNW

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H0098

Date Received: 8/2/2018

Field Sample #: OU3-SED-8

Sample ID: 18H0098-02

Start Date/Time: 8/1/2018 4:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/1/2018 4:50:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	8/2/18	8/3/18 7:04	MAT

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0098-01 [OU3-SED-7]	B209394	08/02/18
18H0098-02 [OU3-SED-8]	B209394	08/02/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0098-01 [OU3-SED-7]	B209357	1.52	50.0	08/02/18
18H0098-02 [OU3-SED-8]	B209357	1.51	50.0	08/02/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0098-01 [OU3-SED-7]	B209410	10.1	10.0	08/02/18
18H0098-02 [OU3-SED-8]	B209410	10.1	10.0	08/02/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0098-01 [OU3-SED-7]	B209450	4.67	10.0	08/03/18
18H0098-02 [OU3-SED-8]	B209450	6.79	10.0	08/03/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0098-01 [OU3-SED-7]	B209374	30.1	1.00	08/02/18
18H0098-02 [OU3-SED-8]	B209374	30.2	1.00	08/02/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209450 - SW-846 5035

Blank (B209450-BLK1)

Prepared & Analyzed: 08/03/18

Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0468		mg/Kg wet	0.0500		93.6	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.0	70-130			

LCS (B209450-BS1)

Prepared & Analyzed: 08/03/18

Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Isopropylbenzene (Cumene)	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
Naphthalene	0.0178	0.0040	mg/Kg wet	0.0200		89.0	40-130			†
1,2,4-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
m+p Xylene	0.0421	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0459		mg/Kg wet	0.0500		91.8	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			

LCS Dup (B209450-BSD1)

Prepared & Analyzed: 08/03/18

Ethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.07	25	
Isopropylbenzene (Cumene)	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	5.07	25	
Naphthalene	0.0177	0.0040	mg/Kg wet	0.0200		88.6	40-130	0.450	25	†
1,2,4-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.00	25	
m+p Xylene	0.0412	0.0040	mg/Kg wet	0.0400		103	70-130	2.30	25	
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.683	25	
Surrogate: 1,2-Dichloroethane-d4	0.0455		mg/Kg wet	0.0500		90.9	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209374 - SW-846 3546

Blank (B209374-BLK1)

Prepared: 08/02/18 Analyzed: 08/03/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.15		mg/Kg wet	3.33		64.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	30-130			
Surrogate: p-Terphenyl-d14	3.08		mg/Kg wet	3.33		92.5	30-130			

LCS (B209374-BS1)

Prepared: 08/02/18 Analyzed: 08/03/18

Acenaphthene	0.858	0.17	mg/Kg wet	1.67		51.5	40-140			
Acenaphthylene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Anthracene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Benzo(a)anthracene	0.838	0.17	mg/Kg wet	1.67		50.3	40-140			
Benzo(a)pyrene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Benzo(b)fluoranthene	0.807	0.17	mg/Kg wet	1.67		48.4	40-140			
Benzo(g,h,i)perylene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140			
Benzo(k)fluoranthene	0.795	0.17	mg/Kg wet	1.67		47.7	40-140			
Chrysene	0.842	0.17	mg/Kg wet	1.67		50.5	40-140			
Fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.6	40-140			
Fluorene	0.893	0.17	mg/Kg wet	1.67		53.6	40-140			
Indeno(1,2,3-cd)pyrene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140			
Naphthalene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140			
Phenanthrene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140			
Pyrene	0.800	0.17	mg/Kg wet	1.67		48.0	40-140			
Surrogate: Nitrobenzene-d5	4.05		mg/Kg wet	6.67		60.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.92		mg/Kg wet	6.67		58.8	30-130			
Surrogate: p-Terphenyl-d14	3.83		mg/Kg wet	6.67		57.4	30-130			

LCS Dup (B209374-BSD1)

Prepared: 08/02/18 Analyzed: 08/03/18

Acenaphthene	0.843	0.17	mg/Kg wet	1.67		50.6	40-140	1.80	30	
Acenaphthylene	0.870	0.17	mg/Kg wet	1.67		52.2	40-140	1.48	30	
Anthracene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.807	30	
Benzo(a)anthracene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140	11.1	30	
Benzo(a)pyrene	0.971	0.17	mg/Kg wet	1.67		58.3	40-140	15.0	30	
Benzo(b)fluoranthene	0.936	0.17	mg/Kg wet	1.67		56.1	40-140	14.8	30	
Benzo(g,h,i)perylene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140	11.8	30	
Benzo(k)fluoranthene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	15.4	30	
Chrysene	0.927	0.17	mg/Kg wet	1.67		55.6	40-140	9.61	30	
Fluoranthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	0.801	30	
Fluorene	0.894	0.17	mg/Kg wet	1.67		53.6	40-140	0.0746	30	
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	11.8	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209374 - SW-846 3546										
LCS Dup (B209374-BSD1)										
					Prepared: 08/02/18 Analyzed: 08/03/18					
Naphthalene	0.971	0.17	mg/Kg wet	1.67		58.3	40-140	0.241	30	
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	2.63	30	
Pyrene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140	14.1	30	
Surrogate: Nitrobenzene-d5	2.06		mg/Kg wet	3.33		62.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg wet	3.33		61.8	30-130			
Surrogate: p-Terphenyl-d14	2.23		mg/Kg wet	3.33		67.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209410 - SW-846 3546										
Blank (B209410-BLK1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		78.1	30-150			
LCS (B209410-BS1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
4,4'-DDD	0.073	0.0040	mg/Kg wet	0.100		72.6	40-140			
4,4'-DDD [2C]	0.076	0.0040	mg/Kg wet	0.100		76.1	40-140			
Heptachlor Epoxide	0.067	0.0050	mg/Kg wet	0.100		67.1	40-140			
Heptachlor Epoxide [2C]	0.070	0.0050	mg/Kg wet	0.100		70.4	40-140			
Surrogate: Decachlorobiphenyl	0.135		mg/Kg wet	0.200		67.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.140		mg/Kg wet	0.200		69.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.126		mg/Kg wet	0.200		63.1	30-150			
LCS Dup (B209410-BSD1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		85.7	40-140	16.5	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		89.0	40-140	15.6	30	
Heptachlor Epoxide	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	15.8	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		81.9	40-140	15.2	30	
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			

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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 B209357 - SW-846 3050B										
Blank (B209357-BLK1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
Lead	ND	0.51	mg/Kg wet							
Zinc	ND	0.69	mg/Kg wet							
LCS (B209357-BS1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
Lead	108	1.5	mg/Kg wet	111		97.6	83-117.1			
Zinc	201	2.0	mg/Kg wet	199		101	81.4-119.1			
LCS Dup (B209357-BSD1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
Lead	112	1.5	mg/Kg wet	111		101	83-117.1	3.58	30	
Zinc	205	2.0	mg/Kg wet	199		103	81.4-119.1	2.07	30	
MRL Check (B209357-MRL1)										
Prepared: 08/02/18 Analyzed: 08/03/18										
Lead	0.584	0.50	mg/Kg wet	0.503		116	80-120			

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BREAKDOWN REPORT

Lab Sample ID: S025829-PEM1 **Analyzed:** 08/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.16
Endrin [1] 4.02

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.29
Endrin [2] 4.61

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM2 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.53
Endrin [1] 3.64

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.68
Endrin [2] 8.16

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM3 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.30
Endrin [1] 5.16

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BREAKDOWN REPORT

Lab Sample ID: S025829-PEM3 **Analyzed:** 08/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.42
Endrin [2] 5.66

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM4 **Analyzed:** 08/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.48
Endrin [1] 3.88

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.61
Endrin [2] 4.07

BREAKDOWN REPORT

Lab Sample ID: S025829-PEM5 **Analyzed:** 08/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 5.31
Endrin [1] 3.78

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 5.52
Endrin [2] 4.27

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B209410-BS1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.560	7.529	7.589	0.073	
	2	7.632	7.600	7.660	0.076	4.0
Heptachlor Epoxide	1	6.867	6.835	6.895	0.067	
	2	6.816	6.785	6.845	0.070	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B209410-BSD1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.561	7.529	7.589	0.086	
	2	7.634	7.600	7.660	0.089	3.4
Heptachlor Epoxide	1	6.869	6.835	6.895	0.079	
	2	6.818	6.785	6.845	0.082	3.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU3
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjlw@land-remediation.com
Sampled By:

Requested Turnaround Time
7-Day 10-Day
Due Date: 3 1

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

Data Delivery
Format: PDF EXCEL
Other: CAT B - Equis
CLP Like Data Pkg Required:
Email To: mjlw@land-remediation
Fax To #: JKL@land-remediation

Conc Code	VOC 8270	SVOC 8260	Metals 6010	Pesticides
X	X	X	X	
X	X	X	X	

of Containers
2 Preservation Code
3 Container Code

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

1 Matrix Codes:
GW = Ground Water
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)

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU3-SED-7	8/1/2018 15:56	8/1/2018 16:00	X		S	L
02	OU3-SED-8	8/1/2018 16:44	8/1/2018 16:50	X		S	L

Comments: LRI Personnell - Attached

Lab prep sample -01 in house for 8260 per Matt W - MEK 8/3/2018

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

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature)	Date/Time: 8-2-18 8:41 AM 7/31/2018
Received by: (signature)	Date/Time: 8-2-18 8:40 AM
Relinquished by: (signature)	Date/Time: 8-2-18 12:30 PM
Received by: (signature)	Date/Time: 8/2/18 1230
Relinquished by: (signature)	Date/Time: 8/2/18 1600
Received by: (signature)	Date/Time: 8/2/18 1600

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Other:



Deliverables

Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other:

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 LAND Remediation

Received By ESD Date 8-2-18 Time 16:00

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

Were samples within Temperature? 2-6°C T By Gun # ? Actual Temp -3.3
 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? Ray, Enz
 Are there Short Holds? XTED Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb /Clear
Meoh-	<u>1</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>2</u>	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:

-no volume received for vials on sample 0V3-SED-7

August 22, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1021

Enclosed are results of analyses for samples received by the laboratory on August 21, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/22/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1021

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

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-18-Composite	18H1021-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-17-Composite	18H1021-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Lisa A. Worthington
Project Manager

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-18-Composite

Sample ID: 18H1021-01

Start Date/Time: 8/20/2018 1:27:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:45:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF
Naphthalene	0.071	0.0027	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF
1,2,4-Trimethylbenzene	0.0011	0.0014	0.00055	mg/Kg dry	1	J	SW-846 8260C	8/22/18	8/22/18 7:40	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 7:40	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.2	70-130	
4-Bromofluorobenzene	106	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-18-Composite

Sample ID: 18H1021-01

Start Date/Time: 8/20/2018 1:27:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:45:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.32	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Anthracene	0.25	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Benzo(a)anthracene	0.18	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Benzo(a)pyrene	0.17	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Benzo(b)fluoranthene	0.14	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Chrysene	0.16	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Fluoranthene	0.38	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Fluorene	0.15	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Naphthalene	0.13	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Phenanthrene	0.88	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Pyrene	0.61	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:14	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	68.2		30-130				8/22/18 12:14			
2-Fluorobiphenyl	64.2		30-130				8/22/18 12:14			
p-Terphenyl-d14	78.0		30-130				8/22/18 12:14			

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-18-Composite

Sample ID: 18H1021-01

Start Date/Time: 8/20/2018 1:27:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:45:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 8:31	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 8:31	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.2	30-150					8/22/18 8:31	
Decachlorobiphenyl [2]		83.1	30-150					8/22/18 8:31	
Tetrachloro-m-xylene [1]		83.4	30-150					8/22/18 8:31	
Tetrachloro-m-xylene [2]		73.8	30-150					8/22/18 8:31	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-18-Composite

Sample ID: 18H1021-01

Start Date/Time: 8/20/2018 1:27:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:45:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.2	0.60	0.35	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:23	QNW
Zinc	25	0.80	0.55	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:23	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-18-Composite

Sample ID: 18H1021-01

Start Date/Time: 8/20/2018 1:27:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:45:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	8/21/18	8/21/18 22:35	JFC

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-17-Composite

Sample ID: 18H1021-02

Start Date/Time: 8/20/2018 1:00:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:27:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
Naphthalene	0.023	0.0028	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF
Xylenes (total)	ND	0.0041		mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:08	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	104	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-17-Composite

Sample ID: 18H1021-02

Start Date/Time: 8/20/2018 1:00:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:27:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.17	0.20	0.059	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Acenaphthylene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Anthracene	0.19	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Benzo(a)anthracene	0.15	0.20	0.052	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Benzo(a)pyrene	0.14	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Benzo(b)fluoranthene	0.12	0.20	0.055	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Chrysene	0.13	0.20	0.061	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Fluoranthene	0.31	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Fluorene	0.10	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Phenanthrene	0.64	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Pyrene	0.51	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 12:40	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	61.3		30-130				8/22/18 12:40			
2-Fluorobiphenyl	60.3		30-130				8/22/18 12:40			
p-Terphenyl-d14	80.5		30-130				8/22/18 12:40			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-17-Composite

Sample ID: 18H1021-02

Start Date/Time: 8/20/2018 1:00:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:27:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 8:58	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 8:58	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	80.7		30-150			8/22/18 8:58			
Decachlorobiphenyl [2]	78.5		30-150			8/22/18 8:58			
Tetrachloro-m-xylene [1]	77.9		30-150			8/22/18 8:58			
Tetrachloro-m-xylene [2]	70.8		30-150			8/22/18 8:58			

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-17-Composite

Sample ID: 18H1021-02

Start Date/Time: 8/20/2018 1:00:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:27:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.3	0.55	0.32	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:28	QNW
Zinc	19	0.74	0.51	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:28	QNW

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

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1021

Date Received: 8/21/2018

Field Sample #: OU3-SED-17-Composite

Sample ID: 18H1021-02

Start Date/Time: 8/20/2018 1:00:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 1:27:00PM

Conventional 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	8/21/18	8/21/18 22:35	JFC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1021-01 [OU3-SED-18-Composite]	B210797	08/21/18
18H1021-02 [OU3-SED-17-Composite]	B210797	08/21/18

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1021-01 [OU3-SED-18-Composite]	B210839	1.53	50.0	08/22/18
18H1021-02 [OU3-SED-17-Composite]	B210839	1.57	50.0	08/22/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1021-01 [OU3-SED-18-Composite]	B210799	10.1	10.0	08/21/18
18H1021-02 [OU3-SED-17-Composite]	B210799	10.6	10.0	08/21/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1021-01 [OU3-SED-18-Composite]	B210838	8.90	10.0	08/22/18
18H1021-02 [OU3-SED-17-Composite]	B210838	8.37	10.0	08/22/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1021-01 [OU3-SED-18-Composite]	B210800	30.0	1.00	08/21/18
18H1021-02 [OU3-SED-17-Composite]	B210800	30.2	1.00	08/21/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210838 - SW-846 5035

Blank (B210838-BLK1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	70-130			

LCS (B210838-BS1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Naphthalene	0.0178	0.0040	mg/Kg wet	0.0200		89.0	40-130			†
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0518		mg/Kg wet	0.0500		104	70-130			

LCS Dup (B210838-BSD1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	4.82	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	1.06	25	
Naphthalene	0.0172	0.0040	mg/Kg wet	0.0200		85.9	40-130	3.54	25	†
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	0.331	25	
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.4	70-130	2.74	25	
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	0.939	25	
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210800 - SW-846 3546

Blank (B210800-BLK1)

Prepared: 08/21/18 Analyzed: 08/22/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: p-Terphenyl-d14	2.88		mg/Kg wet	3.33		86.3	30-130			

LCS (B210800-BS1)

Prepared: 08/21/18 Analyzed: 08/22/18

Acenaphthene	0.949	0.17	mg/Kg wet	1.67		57.0	40-140			
Acenaphthylene	0.945	0.17	mg/Kg wet	1.67		56.7	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			
Benzo(a)pyrene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(g,h,i)perylene	0.871	0.17	mg/Kg wet	1.67		52.3	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Fluoranthene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140			
Fluorene	0.925	0.17	mg/Kg wet	1.67		55.5	40-140			
Indeno(1,2,3-cd)pyrene	0.930	0.17	mg/Kg wet	1.67		55.8	40-140			
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Phenanthrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.24		mg/Kg wet	3.33		67.3	30-130			
Surrogate: p-Terphenyl-d14	2.63		mg/Kg wet	3.33		78.9	30-130			

LCS Dup (B210800-BSD1)

Prepared: 08/21/18 Analyzed: 08/22/18

Acenaphthene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140	2.45	30	
Acenaphthylene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140	0.672	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.737	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	1.12	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140	3.45	30	
Benzo(b)fluoranthene	0.994	0.17	mg/Kg wet	1.67		59.6	40-140	2.71	30	
Benzo(g,h,i)perylene	0.820	0.17	mg/Kg wet	1.67		49.2	40-140	5.99	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140	0.395	30	
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	3.34	30	
Fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	2.51	30	
Fluorene	0.910	0.17	mg/Kg wet	1.67		54.6	40-140	1.60	30	
Indeno(1,2,3-cd)pyrene	0.788	0.17	mg/Kg wet	1.67		47.3	40-140	16.5	30	

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 B210800 - SW-846 3546

LCS Dup (B210800-BSD1)

Prepared: 08/21/18 Analyzed: 08/22/18

Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	1.31	30	
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	0.676	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	2.11	30	
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg wet	3.33		77.2	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210799 - SW-846 3546										
Blank (B210799-BLK1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.7	30-150			
LCS (B210799-BS1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.082	0.0040	mg/Kg wet	0.100		82.5	40-140			
4,4'-DDD [2C]	0.087	0.0040	mg/Kg wet	0.100		87.3	40-140			
Heptachlor Epoxide	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		80.5	40-140			
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.1	30-150			
LCS Dup (B210799-BSD1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140	4.46	30	
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		90.5	40-140	3.65	30	
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140	4.45	30	
Heptachlor Epoxide [2C]	0.084	0.0050	mg/Kg wet	0.100		83.8	40-140	4.01	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210839 - SW-846 3051										
Blank (B210839-BLK1)										
Prepared & Analyzed: 08/22/18										
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B210839-BS1)										
Prepared & Analyzed: 08/22/18										
Lead	112	1.5	mg/Kg wet	111		101	83-117.1			
Zinc	201	2.0	mg/Kg wet	199		101	81.4-119.1			
LCS Dup (B210839-BSD1)										
Prepared & Analyzed: 08/22/18										
Lead	111	1.5	mg/Kg wet	111		100	83-117.1	0.808	30	
Zinc	208	2.0	mg/Kg wet	199		104	81.4-119.1	3.14	30	
MRL Check (B210839-MRL1)										
Prepared & Analyzed: 08/22/18										
Lead	0.495	0.48	mg/Kg wet	0.482		103	80-120			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM1 **Analyzed:** 08/21/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.76
Endrin [1] 1.98

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.81
Endrin [2] 2.00

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM2 **Analyzed:** 08/21/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.84
Endrin [1] 1.52

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.84
Endrin [2] 1.70

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM3 **Analyzed:** 08/22/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.14
Endrin [1] 1.36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM3 Analyzed: 08/22/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.24
Endrin [2]	1.55

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210799-BS1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.339	7.310	7.370	0.082	
	2	7.422	7.392	7.452	0.087	4.7
Heptachlor Epoxide	1	6.656	6.627	6.687	0.079	
	2	6.616	6.586	6.646	0.081	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210799-BSD1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.339	7.310	7.370	0.086	
	2	7.422	7.392	7.452	0.091	5.7
Heptachlor Epoxide	1	6.657	6.627	6.687	0.083	
	2	6.616	6.586	6.646	0.084	1.2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

18H1021

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation

Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: Saranac Lake OU_3

Project Number:

Project Manager: Matthew Warren

Con-Test Quote Name/Number:

Invoice Recipient: mjw@land-remediation.com

Sampled By: Kyle Jones

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: CAT B - Equis
 CLP Like Data Pkg Required:
 Email To: mjw@land-remediation.com
 Fax To #: JKL@land-remediation.com

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU3-SED-18-Composite	8/20/2018 13:27	8/20/2018 13:45	X		S	L
02	OU3-SED-17-Composite	8/20/2018 13:00	8/20/2018 13:27	X		S	L

# of Containers	1	2	3	4	5	6	7	8	9	10
Preservation Code										
Container Code										
ANALYSIS REQUESTED										
VOC 8270										
SVOC 8260										
Metals 6010										
Pesticides										

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

Comments: LRI Personnel - Attached

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature) [Signature] Date/Time: 8/20/18 19:00

Received by: (signature) [Signature] Date/Time: 8/21/18 9:00 AM

Relinquished by: (signature) [Signature] Date/Time: 8/21/18 12:40 PM

Received by: (signature) [Signature] Date/Time: 8/21/18 12:40

Relinquished by: (signature) [Signature] Date/Time: 8/21/18 10:120

Received by: (signature) [Signature] Date/Time: 8/21/18 16:20

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables

Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other: NEUAC and AIHA-LAP, LLC Analytical

Project Entity

Government Municipality MWRA WRTA Other
 Federal 21 J School MBTA
 City Brownfield Chromatogram AIHA-LAP, LLC



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation
 Received By SE Date 8/21/18 Time 1620
 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 # 557 Actual Temp - 3.4
 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? F
 Are there Lab to Filters? _____ Who was notified? _____
 Are there Rushes? F Who was notified? Brie
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? N/A MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>2</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	<u>4</u>	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:

August 22, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1022

Enclosed are results of analyses for samples received by the laboratory on August 21, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/22/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1022

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-15-Composite	18H1022-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-15-Composite Duplicate	18H1022-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8081B**Qualifications:****P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Sample(s) Qualified:**4,4'-DDD**

18H1022-02[OU3-SED-15-Composite Duplicate]

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. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite

Sample ID: 18H1022-01

Start Date/Time: 8/20/2018 5:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	0.0018	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 9:02	MF
Isopropylbenzene (Cumene)	0.0012	0.0014	0.00047	mg/Kg dry	1	J	SW-846 8260C	8/22/18	8/22/18 9:02	MF
Naphthalene	0.27	0.0027	0.00047	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 9:02	MF
1,2,4-Trimethylbenzene	0.0070	0.0014	0.00054	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 9:02	MF
m+p Xylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 9:02	MF
o-Xylene	0.00069	0.0014	0.00047	mg/Kg dry	1	J	SW-846 8260C	8/22/18	8/22/18 9:02	MF
Xylenes (total)	0.00069	0.0041		mg/Kg dry	1	J	SW-846 8260C	8/22/18	8/22/18 9:02	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	103	70-130		8/22/18 9:02
Toluene-d8	102	70-130		8/22/18 9:02
4-Bromofluorobenzene	103	70-130		8/22/18 9:02

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite

Sample ID: 18H1022-01

Start Date/Time: 8/20/2018 5:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.89	0.20	0.061	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Anthracene	0.84	0.20	0.059	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Benzo(a)anthracene	0.50	0.20	0.054	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Benzo(a)pyrene	0.46	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Benzo(b)fluoranthene	0.40	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Benzo(g,h,i)perylene	0.24	0.20	0.090	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Benzo(k)fluoranthene	0.15	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Chrysene	0.48	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Fluoranthene	1.1	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Fluorene	0.47	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Naphthalene	0.60	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Phenanthrene	2.5	0.20	0.11	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Pyrene	1.8	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:06	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	61.4		30-130				8/22/18 13:06			
2-Fluorobiphenyl	56.3		30-130				8/22/18 13:06			
p-Terphenyl-d14	67.1		30-130				8/22/18 13:06			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite

Sample ID: 18H1022-01

Start Date/Time: 8/20/2018 5:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 9:25	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 9:25	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.6	30-150					8/22/18 9:25	
Decachlorobiphenyl [2]		76.5	30-150					8/22/18 9:25	
Tetrachloro-m-xylene [1]		77.7	30-150					8/22/18 9:25	
Tetrachloro-m-xylene [2]		68.4	30-150					8/22/18 9:25	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite

Sample ID: 18H1022-01

Start Date/Time: 8/20/2018 5:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:00:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	5.2	0.57	0.33	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:06	QNW
Zinc	23	0.76	0.52	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:06	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite

Sample ID: 18H1022-01

Start Date/Time: 8/20/2018 5:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:00:00PM

Conventional 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	8/21/18	8/21/18 22:36	JFC

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite Duplicate

Sample ID: 18H1022-02

Start Date/Time: 8/20/2018 6:03:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:11:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	0.00060	0.0014	0.00056	mg/Kg dry	1	J	SW-846 8260C	8/22/18	8/22/18 8:35	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF
Naphthalene	0.13	0.0028	0.00049	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF
1,2,4-Trimethylbenzene	0.0026	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	8/22/18	8/22/18 8:35	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	105	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OUS-SED-15-Composite Duplicate

Sample ID: 18H1022-02

Start Date/Time: 8/20/2018 6:03:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:11:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.67	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Anthracene	0.53	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Benzo(a)anthracene	0.40	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Benzo(a)pyrene	0.38	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Benzo(b)fluoranthene	0.33	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Benzo(g,h,i)perylene	0.19	0.20	0.089	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Benzo(k)fluoranthene	0.11	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Chrysene	0.33	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Fluoranthene	0.83	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Fluorene	0.36	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Indeno(1,2,3-cd)pyrene	0.17	0.20	0.14	mg/Kg dry	1	J	SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Naphthalene	0.42	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Phenanthrene	1.8	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Pyrene	1.4	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/21/18	8/22/18 13:32	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	50.8		30-130						8/22/18 13:32	
2-Fluorobiphenyl	46.2		30-130						8/22/18 13:32	
p-Terphenyl-d14	56.2		30-130						8/22/18 13:32	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite Duplicate

Sample ID: 18H1022-02

Start Date/Time: 8/20/2018 6:03:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:11:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1	P-02	SW-846 8081B	8/21/18	8/22/18 9:52	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	8/21/18	8/22/18 9:52	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					8/22/18 9:52	
Decachlorobiphenyl [2]		73.3	30-150					8/22/18 9:52	
Tetrachloro-m-xylene [1]		74.1	30-150					8/22/18 9:52	
Tetrachloro-m-xylene [2]		65.7	30-150					8/22/18 9:52	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite Duplicate

Sample ID: 18H1022-02

Start Date/Time: 8/20/2018 6:03:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:11:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.6	0.57	0.33	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:01	QNW
Zinc	23	0.76	0.52	mg/Kg dry	1		SW-846 6010D	8/22/18	8/22/18 14:01	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1022

Date Received: 8/21/2018

Field Sample #: OU3-SED-15-Composite Duplicate

Sample ID: 18H1022-02

Start Date/Time: 8/20/2018 6:03:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 6:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	8/21/18	8/21/18 22:36	JFC

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1022-01 [OU3-SED-15-Composite]	B210797	08/21/18
18H1022-02 [OU3-SED-15-Composite Duplicate]	B210797	08/21/18

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1022-01 [OU3-SED-15-Composite]	B210839	1.58	50.0	08/22/18
18H1022-02 [OU3-SED-15-Composite Duplicate]	B210839	1.57	50.0	08/22/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1022-01 [OU3-SED-15-Composite]	B210799	10.5	10.0	08/21/18
18H1022-02 [OU3-SED-15-Composite Duplicate]	B210799	10.2	10.0	08/21/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1022-01 [OU3-SED-15-Composite]	B210838	8.82	10.0	08/22/18
18H1022-02 [OU3-SED-15-Composite Duplicate]	B210838	8.49	10.0	08/22/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1022-01 [OU3-SED-15-Composite]	B210800	30.0	1.00	08/21/18
18H1022-02 [OU3-SED-15-Composite Duplicate]	B210800	30.2	1.00	08/21/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210838 - SW-846 5035

Blank (B210838-BLK1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	70-130			

LCS (B210838-BS1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Naphthalene	0.0178	0.0040	mg/Kg wet	0.0200		89.0	40-130			†
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0518		mg/Kg wet	0.0500		104	70-130			

LCS Dup (B210838-BSD1)

Prepared & Analyzed: 08/22/18

Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	4.82	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	1.06	25	
Naphthalene	0.0172	0.0040	mg/Kg wet	0.0200		85.9	40-130	3.54	25	†
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	0.331	25	
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.4	70-130	2.74	25	
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	0.939	25	
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210800 - SW-846 3546										
Blank (B210800-BLK1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: p-Terphenyl-d14	2.88		mg/Kg wet	3.33		86.3	30-130			
LCS (B210800-BS1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Acenaphthene	0.949	0.17	mg/Kg wet	1.67		57.0	40-140			
Acenaphthylene	0.945	0.17	mg/Kg wet	1.67		56.7	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			
Benzo(a)pyrene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(g,h,i)perylene	0.871	0.17	mg/Kg wet	1.67		52.3	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140			
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Fluoranthene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140			
Fluorene	0.925	0.17	mg/Kg wet	1.67		55.5	40-140			
Indeno(1,2,3-cd)pyrene	0.930	0.17	mg/Kg wet	1.67		55.8	40-140			
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Phenanthrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.24		mg/Kg wet	3.33		67.3	30-130			
Surrogate: p-Terphenyl-d14	2.63		mg/Kg wet	3.33		78.9	30-130			
LCS Dup (B210800-BSD1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Acenaphthene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140	2.45	30	
Acenaphthylene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140	0.672	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.737	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	1.12	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140	3.45	30	
Benzo(b)fluoranthene	0.994	0.17	mg/Kg wet	1.67		59.6	40-140	2.71	30	
Benzo(g,h,i)perylene	0.820	0.17	mg/Kg wet	1.67		49.2	40-140	5.99	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140	0.395	30	
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	3.34	30	
Fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	2.51	30	
Fluorene	0.910	0.17	mg/Kg wet	1.67		54.6	40-140	1.60	30	
Indeno(1,2,3-cd)pyrene	0.788	0.17	mg/Kg wet	1.67		47.3	40-140	16.5	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210800 - SW-846 3546

LCS Dup (B210800-BSD1)

Prepared: 08/21/18 Analyzed: 08/22/18

Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	1.31	30	
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	0.676	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	2.11	30	
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg wet	3.33		77.2	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210799 - SW-846 3546										
Blank (B210799-BLK1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.7	30-150			
LCS (B210799-BS1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.082	0.0040	mg/Kg wet	0.100		82.5	40-140			
4,4'-DDD [2C]	0.087	0.0040	mg/Kg wet	0.100		87.3	40-140			
Heptachlor Epoxide	0.079	0.0050	mg/Kg wet	0.100		79.0	40-140			
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		80.5	40-140			
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.1	30-150			
LCS Dup (B210799-BSD1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140	4.46	30	
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		90.5	40-140	3.65	30	
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140	4.45	30	
Heptachlor Epoxide [2C]	0.084	0.0050	mg/Kg wet	0.100		83.8	40-140	4.01	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			
Matrix Spike (B210799-MS1)										
Source: 18H1022-02 Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.10	0.0045	mg/Kg dry	0.114	0.00047	89.2	30-150			
4,4'-DDD [2C]	0.10	0.0045	mg/Kg dry	0.114	0.00094	88.7	30-150			
Heptachlor Epoxide	0.10	0.0057	mg/Kg dry	0.114	ND	89.2	30-150			
Heptachlor Epoxide [2C]	0.096	0.0057	mg/Kg dry	0.114	ND	84.7	30-150			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg dry	0.227		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg dry	0.227		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg dry	0.227		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg dry	0.227		82.0	30-150			
Matrix Spike Dup (B210799-MSD1)										
Source: 18H1022-02 Prepared: 08/21/18 Analyzed: 08/22/18										
4,4'-DDD	0.11	0.0048	mg/Kg dry	0.119	ND	88.5	30-150	3.72	30	
4,4'-DDD [2C]	0.11	0.0048	mg/Kg dry	0.119	0.00094	88.2	30-150	4.22	30	
Heptachlor Epoxide	0.11	0.0060	mg/Kg dry	0.119	ND	88.2	30-150	3.68	30	
Heptachlor Epoxide [2C]	0.10	0.0060	mg/Kg dry	0.119	ND	83.8	30-150	3.81	30	
Surrogate: Decachlorobiphenyl	0.216		mg/Kg dry	0.239		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.209		mg/Kg dry	0.239		87.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.215		mg/Kg dry	0.239		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg dry	0.239		81.2	30-150			

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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 B210839 - SW-846 3051										
Blank (B210839-BLK1)										
Prepared & Analyzed: 08/22/18										
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B210839-BS1)										
Prepared & Analyzed: 08/22/18										
Lead	112	1.5	mg/Kg wet	111		101	83-117.1			
Zinc	201	2.0	mg/Kg wet	199		101	81.4-119.1			
LCS Dup (B210839-BSD1)										
Prepared & Analyzed: 08/22/18										
Lead	111	1.5	mg/Kg wet	111		100	83-117.1	0.808	30	
Zinc	208	2.0	mg/Kg wet	199		104	81.4-119.1	3.14	30	
MRL Check (B210839-MRL1)										
Prepared & Analyzed: 08/22/18										
Lead	0.495	0.48	mg/Kg wet	0.482		103	80-120			
Matrix Spike (B210839-MS1)										
Source: 18H1022-02										
Prepared & Analyzed: 08/22/18										
Lead	20.0	0.57	mg/Kg dry	19.0	4.57	81.2	75-125			
Zinc	53.5	0.76	mg/Kg dry	38.0	23.3	79.7	75-125			
Matrix Spike Dup (B210839-MSD1)										
Source: 18H1022-02										
Prepared & Analyzed: 08/22/18										
Lead	19.5	0.57	mg/Kg dry	19.0	4.57	78.7	75-125	2.30	35	
Zinc	53.8	0.76	mg/Kg dry	38.0	23.3	80.2	75-125	0.486	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
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Batch B210797 - % Solids

Duplicate (B210797-DUP1)

Source: 18H1022-02

Prepared & Analyzed: 08/21/18

% Solids	83.5		% Wt		83.8			0.446	20	
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BREAKDOWN REPORT

Lab Sample ID: S026512-PEM1 Analyzed: 08/21/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	0.76
Endrin [1]	1.98

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	0.81
Endrin [2]	2.00

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM2 Analyzed: 08/21/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	0.84
Endrin [1]	1.52

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	0.84
Endrin [2]	1.70

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM3 Analyzed: 08/22/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.14
Endrin [1]	1.36

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BREAKDOWN REPORT

Lab Sample ID: S026512-PEM3 Analyzed: 08/22/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.24
Endrin [2]	1.55

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210799-BS1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.339	7.310	7.370	0.082	
	2	7.422	7.392	7.452	0.087	4.7
Heptachlor Epoxide	1	6.656	6.627	6.687	0.079	
	2	6.616	6.586	6.646	0.081	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210799-BSD1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.339	7.310	7.370	0.086	
	2	7.422	7.392	7.452	0.091	5.7
Heptachlor Epoxide	1	6.657	6.627	6.687	0.083	
	2	6.616	6.586	6.646	0.084	1.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B210799-MS1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.339	7.310	7.370	0.10	
	2	7.422	7.393	7.453	0.10	0.0
Heptachlor Epoxide	1	6.657	6.627	6.687	0.10	
	2	6.616	6.587	6.647	0.096	4.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B210799-MSD1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.338	7.310	7.370	0.11	
	2	7.422	7.393	7.453	0.11	0.0
Heptachlor Epoxide	1	6.656	6.627	6.687	0.11	
	2	6.616	6.587	6.647	0.10	9.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

1841022

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 Email: info@contestlabs.com

39 Spruce Street
 East Longmeadow, MA 01028

Page _____ of _____

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3
Project Number: _____
Project Manager: Matthew Warren
Con-Test Quote Name/Number: _____
Invoice Recipient: miw@land-remediation.com
Sampled By: Kyle Jones

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: CAT B - Equis
 CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #: jkl@land-remediation.com

of Containers
 2 Preservation Code
 3 Container Code
Disolved 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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	OU3-SED-15-Composite	8/20/2018 17:56	8/20/2018 18:00	X	S	S	L
02	OU3-SED-15-Composite Duplicate	8/20/2018 18:09	8/20/2018 18:11	X	S	S	L

ANALYSIS REQUESTED

Matrix Spike Duplicate	Pesticides	Metals 6010	SVOC 8260	VOC 8270	8 oz	8 oz G
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature) *[Signature]* Date/Time: 8/21/18 9:00
Received by: (signature) *[Signature]* Date/Time: 8/21/18 9:00
Relinquished by: (signature) *[Signature]* Date/Time: 8/21/18 12:40
Received by: (signature) *[Signature]* Date/Time: 8/21/18 12:40
Relinquished by: (signature) *[Signature]* Date/Time: 8/21/18 16:20
Received by: (signature) *[Signature]* Date/Time: 8/21/18 16:20

Program & Regulatory Information
 AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables
 Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other: WRTA AWRA School MBTA
 Municipality 21 J Brownfield
 Government Federal City
 Project Entity
 Chromatogram AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAND Remediation

Received By SE Date 8/21/18 Time 1620

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 # 557 Actual Temp - 2.0
 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 _____
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? F

Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? Brie
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T MS/MSD? F
 Is there Headspace where applicable? N/A Is splitting samples required? F
 Proper Media/Containers Used? T On COC? F
 Were trip blanks received? F Acid _____ Base _____
 Do all samples have the proper pH? N/A

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>2</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>4</u>	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:

August 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1096

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1096

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-12 Composite	18H1096-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 6010D**Qualifications:****M-10**

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Sample(s) Qualified:**Lead**

18H1096-01[OU3-SED-12 Composite], B210993-MRL1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1096

Date Received: 8/22/2018

Field Sample #: OU3-SED-12 Composite

Sample ID: 18H1096-01

Start Date/Time: 8/21/2018 5:30:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 5:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
Naphthalene	0.0063	0.0029	0.00052	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
m+p Xylene	ND	0.0029	0.0013	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 8:36	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	106	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1096

Date Received: 8/22/2018

Field Sample #: OU3-SED-12 Composite

Sample ID: 18H1096-01

Start Date/Time: 8/21/2018 5:30:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 5:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Benzo(a)anthracene	0.059	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Fluoranthene	0.095	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Phenanthrene	0.17	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Pyrene	0.16	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:16	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	73.9		30-130				8/23/18 10:16			
2-Fluorobiphenyl	76.5		30-130				8/23/18 10:16			
p-Terphenyl-d14	93.3		30-130				8/23/18 10:16			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1096

Date Received: 8/22/2018

Field Sample #: OU3-SED-12 Composite

Sample ID: 18H1096-01

Start Date/Time: 8/21/2018 5:30:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 5:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 7:46	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 7:46	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual		Date Prepared	Date/Time Analyzed	Analyst
Decachlorobiphenyl [1]	72.7		30-150					8/23/18 7:46	
Decachlorobiphenyl [2]	72.0		30-150					8/23/18 7:46	
Tetrachloro-m-xylene [1]	73.2		30-150					8/23/18 7:46	
Tetrachloro-m-xylene [2]	67.8		30-150					8/23/18 7:46	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1096

Date Received: 8/22/2018

Field Sample #: OU3-SED-12 Composite

Sample ID: 18H1096-01

Start Date/Time: 8/21/2018 5:30:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 5:40:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.2	0.63	0.37	mg/Kg dry	1	M-10	SW-846 6010D	8/23/18	8/24/18 12:14	QNW
Zinc	20	0.83	0.57	mg/Kg dry	1		SW-846 6010D	8/23/18	8/24/18 12:14	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1096

Date Received: 8/22/2018

Field Sample #: OU3-SED-12 Composite

Sample ID: 18H1096-01

Start Date/Time: 8/21/2018 5:30:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 5:40:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	8/22/18	8/23/18 13:58	MAT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1096-01 [OU3-SED-12 Composite]	B210897	08/22/18

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1096-01 [OU3-SED-12 Composite]	B210993	1.46	50.0	08/23/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1096-01 [OU3-SED-12 Composite]	B210814	10.5	10.0	08/22/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1096-01 [OU3-SED-12 Composite]	B210938	8.28	10.0	08/23/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1096-01 [OU3-SED-12 Composite]	B210869	30.0	1.00	08/22/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210938 - SW-846 5035										
Blank (B210938-BLK1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0519		mg/Kg wet	0.0500		104	70-130			
LCS (B210938-BS1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		100	40-130			†
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B210938-BSD1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.53	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.26	25	
Naphthalene	0.0187	0.0040	mg/Kg wet	0.0200		93.4	40-130	7.32	25	†
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	1.68	25	
m+p Xylene	0.0396	0.0040	mg/Kg wet	0.0400		99.0	70-130	3.13	25	
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	3.85	25	
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210869 - SW-846 3546										
Blank (B210869-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.7	30-130			
LCS (B210869-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Anthracene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140			
Pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.1	30-130			
Surrogate: p-Terphenyl-d14	3.21		mg/Kg wet	3.33		96.4	30-130			
LCS Dup (B210869-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	1.19	30	
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	0.0282	30	
Anthracene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140	0.832	30	
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	8.90	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	11.8	30	
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	12.6	30	
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	13.1	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	10.4	30	
Chrysene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140	9.06	30	
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	0.992	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.142	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	18.4	30	

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 B210869 - SW-846 3546										
LCS Dup (B210869-BSD1)										
					Prepared: 08/22/18 Analyzed: 08/23/18					
Naphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.63	30	
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	0.827	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140	10.4	30	
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		80.9	30-130			
Surrogate: p-Terphenyl-d14	3.58		mg/Kg wet	3.33		107	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210814 - SW-846 3546										
Blank (B210814-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	ND	0.0039	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0039	mg/Kg wet							
Heptachlor Epoxide	ND	0.0049	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0049	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.183		mg/Kg wet	0.194		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.194		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.194		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.194		98.3	30-150			
LCS (B210814-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.097	0.0040	mg/Kg wet	0.100		97.0	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
Heptachlor Epoxide	0.094	0.0050	mg/Kg wet	0.100		94.2	40-140			
Heptachlor Epoxide [2C]	0.097	0.0050	mg/Kg wet	0.100		96.6	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			
LCS Dup (B210814-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.078	0.0038	mg/Kg wet	0.0952		82.2	40-140	21.3	30	
4,4'-DDD [2C]	0.082	0.0038	mg/Kg wet	0.0952		85.7	40-140	21.9	30	
Heptachlor Epoxide	0.077	0.0048	mg/Kg wet	0.0952		80.6	40-140	20.3	30	
Heptachlor Epoxide [2C]	0.077	0.0048	mg/Kg wet	0.0952		81.1	40-140	22.2	30	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.190		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.190		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.190		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.133		mg/Kg wet	0.190		70.0	30-150			

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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 B210993 - SW-846 3051										
Blank (B210993-BLK1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B210993-BS1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	118	1.5	mg/Kg wet	111		107	83-117.1			
Zinc	218	2.0	mg/Kg wet	199		110	81.4-119.1			
LCS Dup (B210993-BSD1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	117	1.5	mg/Kg wet	111		105	83-117.1	1.17	30	
Zinc	213	2.0	mg/Kg wet	199		107	81.4-119.1	2.53	30	
MRL Check (B210993-MRL1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	0.666	0.49	mg/Kg wet	0.494		135 *	80-120			M-10

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM1 **Analyzed:** 08/22/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.73
Endrin [1] 1.58

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.82
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM2 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.30
Endrin [1] 2.19

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.41
Endrin [2] 2.22

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.26
Endrin [1] 2.02

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 Analyzed: 08/23/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.47
Endrin [2]	2.02

BREAKDOWN REPORT

Lab Sample ID: S026596-PEM1 Analyzed: 08/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.48
Endrin [1]	2.38

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	2.30

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210814-BS1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.336	7.306	7.366	0.097	
	2	7.420	7.391	7.451	0.10	3.1
Heptachlor Epoxide	1	6.653	6.624	6.684	0.094	
	2	6.614	6.585	6.645	0.097	3.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210814-BSD1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.337	7.306	7.366	0.078	
	2	7.420	7.391	7.451	0.082	5.0
Heptachlor Epoxide	1	6.654	6.624	6.684	0.077	
	2	6.614	6.585	6.645	0.077	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD
NEW YORK STATE

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com



Company Name: LAND Remediation
Address: 74 Hudson River Rd
Waterford, NY 12188

Telephone: 1841096
Project #
Client PO#

Project Location: Saratoga Lake 00-3
Sampled By: Kyle Jones

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax # 1841096-remediation
 Email: mjw@land-remediation.com
 Format: PDF EXCEL GIS OTHER

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Conc Code
		Beginning Date/Time	Ending Date/Time				
1	003-5ED-12-Composite	8/21 17:30	8/21 17:40	X		SL	

Project Proposal Provided? (for billing purposes)

Enhanced Data Package
 "Enhanced Data Package"

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	ANALYSIS REQUESTED	# of Containers	** Preservation	*** Container Code	Dissolved Metals <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter	*** Cont. Code: A=amber glass G=glass P=plastic ST=sterile V= vial S=summa can T=tetlar bag O=Other ** Preservation I= Iced H= HCL M= Methanol N= Nitric Acid S= Sulfuric Acid B= Sodium bisulfate X= Na hydroxide T= Na thiosulfate O= Other	*Matrix Code: GW= groundwater WW= wastewater DW= drinking water A= air S= soil/solid SL= sludge O= other

Comments:
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround
 5-Day
 7 Day
 10-Day or RUSH
 24 hr 48 hr
 72 hr 4 day
* Require lab approval

Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	8/21 17:56	<i>[Signature]</i>	8/28 14:00	<i>[Signature]</i>	8/28 14:00	<i>[Signature]</i>	8/28 15:20
<i>[Signature]</i>		<i>[Signature]</i>	8/28 14:00	<i>[Signature]</i>	8/28 15:20	<i>[Signature]</i>	

Program Information/Regulatory
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)

Deliverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

NY Part 375
 NY CP-51
 Other:

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 LAKE

Received By ESD Date 8-22-18 Time 15:20

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp -2.7
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

Are there Rushes? RT

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? R. G. P. G.

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	2	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:

August 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1097

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1097

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-14 Composite	18H1097-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-13 Composite	18H1097-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-10 Composite	18H1097-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 6010D**Qualifications:****M-10**

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:**Lead**

18H1097-01[OU3-SED-14 Composite], 18H1097-02[OU3-SED-13 Composite], 18H1097-03[OU3-SED-10 Composite], B210993-MRL1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-14 Composite

Sample ID: 18H1097-01

Start Date/Time: 8/21/2018 9:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 9:40:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF
Naphthalene	0.0018	0.0030	0.00052	mg/Kg dry	1	J	SW-846 8260C	8/23/18	8/23/18 9:03	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:03	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	107	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-14 Composite

Sample ID: 18H1097-01

Start Date/Time: 8/21/2018 9:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 9:40:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.099	0.21	0.063	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Anthracene	0.12	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Benzo(a)anthracene	0.089	0.21	0.056	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Benzo(a)pyrene	0.080	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Chrysene	0.069	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Fluoranthene	0.16	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Phenanthrene	0.35	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL
Pyrene	0.28	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 10:40	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	72.4	30-130	
2-Fluorobiphenyl	71.0	30-130	
p-Terphenyl-d14	91.5	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-14 Composite

Sample ID: 18H1097-01

Start Date/Time: 8/21/2018 9:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 9:40:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 8:13	TG
Heptachlor epoxide [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 8:13	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	87.9		30-150				8/23/18 8:13		
Decachlorobiphenyl [2]	86.7		30-150				8/23/18 8:13		
Tetrachloro-m-xylene [1]	85.9		30-150				8/23/18 8:13		
Tetrachloro-m-xylene [2]	75.6		30-150				8/23/18 8:13		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-14 Composite

Sample ID: 18H1097-01

Start Date/Time: 8/21/2018 9:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 9:40:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.1	0.61	0.36	mg/Kg dry	1	M-10	SW-846 6010D	8/23/18	8/24/18 12:19	QNW
Zinc	18	0.82	0.56	mg/Kg dry	1		SW-846 6010D	8/23/18	8/24/18 12:19	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-14 Composite

Sample ID: 18H1097-01

Start Date/Time: 8/21/2018 9:35:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 9:40:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.9		% Wt	1		SM 2540G	8/22/18	8/23/18 13:58	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-13 Composite

Sample ID: 18H1097-02

Start Date/Time: 8/21/2018 11:14:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 11:20:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF
Naphthalene	0.041	0.0030	0.00053	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF
1,2,4-Trimethylbenzene	0.0013	0.0015	0.00060	mg/Kg dry	1	J	SW-846 8260C	8/23/18	8/23/18 9:32	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:32	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	106	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-13 Composite

Sample ID: 18H1097-02

Start Date/Time: 8/21/2018 11:14:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 11:20:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.16	0.21	0.062	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Anthracene	0.18	0.21	0.060	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Benzo(a)anthracene	0.16	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Benzo(a)pyrene	0.14	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Benzo(b)fluoranthene	0.10	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Chrysene	0.14	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Fluoranthene	0.28	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Fluorene	0.11	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Phenanthrene	0.59	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL
Pyrene	0.48	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	71.3	30-130	
2-Fluorobiphenyl	72.9	30-130	
p-Terphenyl-d14	91.2	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-13 Composite

Sample ID: 18H1097-02

Start Date/Time: 8/21/2018 11:14:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 11:20:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 8:40	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 8:40	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	77.9		30-150					8/23/18 8:40	
Decachlorobiphenyl [2]	75.9		30-150					8/23/18 8:40	
Tetrachloro-m-xylene [1]	77.3		30-150					8/23/18 8:40	
Tetrachloro-m-xylene [2]	70.0		30-150					8/23/18 8:40	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-13 Composite

Sample ID: 18H1097-02

Start Date/Time: 8/21/2018 11:14:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 11:20:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.8	0.60	0.35	mg/Kg dry	1	M-10	SW-846 6010D	8/23/18	8/24/18 12:24	QNW
Zinc	18	0.80	0.55	mg/Kg dry	1		SW-846 6010D	8/23/18	8/24/18 12:24	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-13 Composite

Sample ID: 18H1097-02

Start Date/Time: 8/21/2018 11:14:00AM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 11:20:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	8/22/18	8/23/18 13:58	MAT

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-10 Composite

Sample ID: 18H1097-03

Start Date/Time: 8/21/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 2:22:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
Naphthalene	0.045	0.0033	0.00059	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
1,2,4-Trimethylbenzene	0.0025	0.0017	0.00067	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF
Xylenes (total)	ND	0.0050		mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 9:59	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	104	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-10 Composite

Sample ID: 18H1097-03

Start Date/Time: 8/21/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 2:22:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.65	0.23	0.069	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Acenaphthylene	ND	0.23	0.077	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Anthracene	0.56	0.23	0.067	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Benzo(a)anthracene	0.54	0.23	0.061	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Benzo(a)pyrene	0.52	0.23	0.072	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Benzo(b)fluoranthene	0.39	0.23	0.065	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Benzo(g,h,i)perylene	0.23	0.23	0.10	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Benzo(k)fluoranthene	0.15	0.23	0.072	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Chrysene	0.45	0.23	0.072	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Fluoranthene	1.0	0.23	0.076	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Fluorene	0.37	0.23	0.075	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Indeno(1,2,3-cd)pyrene	0.20	0.23	0.17	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Naphthalene	0.40	0.23	0.12	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Phenanthrene	2.1	0.23	0.12	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL
Pyrene	1.7	0.23	0.076	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	72.4	30-130	
2-Fluorobiphenyl	64.6	30-130	
p-Terphenyl-d14	80.0	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-10 Composite

Sample ID: 18H1097-03

Start Date/Time: 8/21/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 2:22:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 9:06	TG
Heptachlor epoxide [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 9:06	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.0	30-150					8/23/18 9:06	
Decachlorobiphenyl [2]		75.2	30-150					8/23/18 9:06	
Tetrachloro-m-xylene [1]		82.9	30-150					8/23/18 9:06	
Tetrachloro-m-xylene [2]		73.0	30-150					8/23/18 9:06	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-10 Composite

Sample ID: 18H1097-03

Start Date/Time: 8/21/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 2:22:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	10	0.69	0.40	mg/Kg dry	1	M-10	SW-846 6010D	8/23/18	8/24/18 12:29	QNW
Zinc	23	0.91	0.63	mg/Kg dry	1		SW-846 6010D	8/23/18	8/24/18 12:29	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1097

Date Received: 8/22/2018

Field Sample #: OU3-SED-10 Composite

Sample ID: 18H1097-03

Start Date/Time: 8/21/2018 2:16:00PM

Sample Matrix: Soil

Stop Date/Time: 8/21/2018 2:22:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.9		% Wt	1		SM 2540G	8/22/18	8/23/18 13:58	MAT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1097-01 [OU3-SED-14 Composite]	B210897	08/22/18
18H1097-02 [OU3-SED-13 Composite]	B210897	08/22/18
18H1097-03 [OU3-SED-10 Composite]	B210897	08/22/18

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1097-01 [OU3-SED-14 Composite]	B210993	1.53	50.0	08/23/18
18H1097-02 [OU3-SED-13 Composite]	B210993	1.55	50.0	08/23/18
18H1097-03 [OU3-SED-10 Composite]	B210993	1.50	50.0	08/23/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1097-01 [OU3-SED-14 Composite]	B210814	10.0	10.0	08/22/18
18H1097-02 [OU3-SED-13 Composite]	B210814	10.4	10.0	08/22/18
18H1097-03 [OU3-SED-10 Composite]	B210814	10.0	10.0	08/22/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1097-01 [OU3-SED-14 Composite]	B210938	8.40	10.0	08/23/18
18H1097-02 [OU3-SED-13 Composite]	B210938	8.22	10.0	08/23/18
18H1097-03 [OU3-SED-10 Composite]	B210938	8.19	10.0	08/23/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1097-01 [OU3-SED-14 Composite]	B210869	30.3	1.00	08/22/18
18H1097-02 [OU3-SED-13 Composite]	B210869	30.3	1.00	08/22/18
18H1097-03 [OU3-SED-10 Composite]	B210869	30.3	1.00	08/22/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210938 - SW-846 5035										
Blank (B210938-BLK1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0519		mg/Kg wet	0.0500		104	70-130			
LCS (B210938-BS1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		100	40-130			†
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B210938-BSD1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.53	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.26	25	
Naphthalene	0.0187	0.0040	mg/Kg wet	0.0200		93.4	40-130	7.32	25	†
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	1.68	25	
m+p Xylene	0.0396	0.0040	mg/Kg wet	0.0400		99.0	70-130	3.13	25	
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	3.85	25	
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210869 - SW-846 3546										
Blank (B210869-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.7	30-130			
LCS (B210869-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Anthracene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140			
Pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.1	30-130			
Surrogate: p-Terphenyl-d14	3.21		mg/Kg wet	3.33		96.4	30-130			
LCS Dup (B210869-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	1.19	30	
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	0.0282	30	
Anthracene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140	0.832	30	
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	8.90	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	11.8	30	
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	12.6	30	
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	13.1	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	10.4	30	
Chrysene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140	9.06	30	
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	0.992	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.142	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	18.4	30	

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 B210869 - SW-846 3546										
LCS Dup (B210869-BSD1)										
					Prepared: 08/22/18 Analyzed: 08/23/18					
Naphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.63	30	
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	0.827	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140	10.4	30	
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		80.9	30-130			
Surrogate: p-Terphenyl-d14	3.58		mg/Kg wet	3.33		107	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210814 - SW-846 3546										
Blank (B210814-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	ND	0.0039	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0039	mg/Kg wet							
Heptachlor Epoxide	ND	0.0049	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0049	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.183		mg/Kg wet	0.194		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.194		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.194		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.194		98.3	30-150			
LCS (B210814-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.097	0.0040	mg/Kg wet	0.100		97.0	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
Heptachlor Epoxide	0.094	0.0050	mg/Kg wet	0.100		94.2	40-140			
Heptachlor Epoxide [2C]	0.097	0.0050	mg/Kg wet	0.100		96.6	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			
LCS Dup (B210814-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.078	0.0038	mg/Kg wet	0.0952		82.2	40-140	21.3	30	
4,4'-DDD [2C]	0.082	0.0038	mg/Kg wet	0.0952		85.7	40-140	21.9	30	
Heptachlor Epoxide	0.077	0.0048	mg/Kg wet	0.0952		80.6	40-140	20.3	30	
Heptachlor Epoxide [2C]	0.077	0.0048	mg/Kg wet	0.0952		81.1	40-140	22.2	30	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.190		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.190		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.190		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.133		mg/Kg wet	0.190		70.0	30-150			

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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 B210993 - SW-846 3051										
Blank (B210993-BLK1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B210993-BS1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	118	1.5	mg/Kg wet	111		107	83-117.1			
Zinc	218	2.0	mg/Kg wet	199		110	81.4-119.1			
LCS Dup (B210993-BSD1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	117	1.5	mg/Kg wet	111		105	83-117.1	1.17	30	
Zinc	213	2.0	mg/Kg wet	199		107	81.4-119.1	2.53	30	
MRL Check (B210993-MRL1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	0.666	0.49	mg/Kg wet	0.494		135 *	80-120			M-10

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM1 **Analyzed:** 08/22/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.73
Endrin [1] 1.58

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.82
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM2 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.30
Endrin [1] 2.19

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.41
Endrin [2] 2.22

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.26
Endrin [1] 2.02

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 Analyzed: 08/23/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.47
Endrin [2]	2.02

BREAKDOWN REPORT

Lab Sample ID: S026596-PEM1 Analyzed: 08/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.48
Endrin [1]	2.38

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	2.30

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210814-BS1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.336	7.306	7.366	0.097	
	2	7.420	7.391	7.451	0.10	3.1
Heptachlor Epoxide	1	6.653	6.624	6.684	0.094	
	2	6.614	6.585	6.645	0.097	3.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210814-BSD1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.337	7.306	7.366	0.078	
	2	7.420	7.391	7.451	0.082	5.0
Heptachlor Epoxide	1	6.654	6.624	6.684	0.077	
	2	6.614	6.585	6.645	0.077	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1871097

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page ___ of ___

Company Name: **LAND Remediation**

Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name: **NYSDEC Saranac Lake Gas Co.**

Project Location: **Saranac Lake OU_3**

Project Number: **Matthew Warren**

Project Manager:

Con-Test Quote Name/Number:

Invoice Recipient: mjw@land-remediation.com

Sampled By: **Kyle Jones**

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: CAT B - Equis

CLP Like Data Pkg Required:

Email To: mjw@land-remediation.com

Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU3-SED-14-Composite	8/21/18 9:35	8/21/18 9:40	X		S	L
2	OU3-SED-13-Composite	8/21/18 11:14	8/21/18 11:20	X		S	L
3	OU3-SED-10-Composite	8/21/18 14:16	8/21/18 14:22	X		S	L

# of Containers	Preservation Code	Container Code	Field Filtered	Lab to Filter	Field Filtered	Lab to Filter
3	1	1				
8 oz	V	8 oz G				

ANALYSIS REQUESTED

VOC 8270
SVOC 8260
Metals 6010
Pesticides

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

Comments: LRI Personnel - Attached

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

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/22/18 7:40
Received by: (signature)	Date/Time
<i>[Signature]</i>	8/22/18 8:30 AM
Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/22/18 1400
Received by: (signature)	Date/Time
<i>[Signature]</i>	8/22/18 1400
Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	8/22/18 15:20
Received by: (signature)	Date/Time
<i>[Signature]</i>	8/22-18 15:20

Program B Regulatory Information

AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

NY TOGS
 NY TOGS
 NY CP-51

Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

Other: Other



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Low remediation

Received By ESD Date 8-22-18 Time 15:20

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 575 Actual Temp - 2.9
 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? Ray, Alex
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	3	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	6	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:

August 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1125

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1125

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-16-Composite	18H1125-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 6010D

Qualifications:

M-10

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:

Lead

18H1125-01[OU3-SED-16-Composite], B210993-MRL1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1125

Date Received: 8/22/2018

Field Sample #: OU3-SED-16-Composite

Sample ID: 18H1125-01

Start Date/Time: 8/20/2018 3:42:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 3:44:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00058	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF
Naphthalene	0.031	0.0029	0.00050	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF
1,2,4-Trimethylbenzene	0.00061	0.0014	0.00058	mg/Kg dry	1	J	SW-846 8260C	8/23/18	8/23/18 10:28	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF
o-Xylene	ND	0.0014	0.00050	mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF
Xylenes (total)	ND	0.0043		mg/Kg dry	1		SW-846 8260C	8/23/18	8/23/18 10:28	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	104	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1125

Date Received: 8/22/2018

Field Sample #: OU3-SED-16-Composite

Sample ID: 18H1125-01

Start Date/Time: 8/20/2018 3:42:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 3:44:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.22	0.20	0.061	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Anthracene	0.26	0.20	0.059	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Benzo(a)anthracene	0.20	0.20	0.054	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Benzo(a)pyrene	0.19	0.20	0.064	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Benzo(b)fluoranthene	0.15	0.20	0.058	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Chrysene	0.19	0.20	0.064	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Fluoranthene	0.40	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Fluorene	0.15	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Phenanthrene	0.88	0.20	0.11	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL
Pyrene	0.67	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/22/18	8/23/18 11:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	68.6	30-130	
2-Fluorobiphenyl	73.9	30-130	
p-Terphenyl-d14	92.3	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1125

Date Received: 8/22/2018

Field Sample #: OU3-SED-16-Composite

Sample ID: 18H1125-01

Start Date/Time: 8/20/2018 3:42:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 3:44:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 9:50	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	8/22/18	8/23/18 9:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	81.6		30-150					8/23/18 9:50	
Decachlorobiphenyl [2]	78.9		30-150					8/23/18 9:50	
Tetrachloro-m-xylene [1]	78.8		30-150					8/23/18 9:50	
Tetrachloro-m-xylene [2]	72.0		30-150					8/23/18 9:50	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1125

Date Received: 8/22/2018

Field Sample #: OU3-SED-16-Composite

Sample ID: 18H1125-01

Start Date/Time: 8/20/2018 3:42:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 3:44:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.9	0.57	0.34	mg/Kg dry	1	M-10	SW-846 6010D	8/23/18	8/24/18 12:44	QNW
Zinc	27	0.76	0.52	mg/Kg dry	1		SW-846 6010D	8/23/18	8/24/18 12:44	QNW

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1125

Date Received: 8/22/2018

Field Sample #: OU3-SED-16-Composite

Sample ID: 18H1125-01

Start Date/Time: 8/20/2018 3:42:00PM

Sample Matrix: Soil

Stop Date/Time: 8/20/2018 3:44:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	8/22/18	8/23/18 13:58	MAT

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1125-01 [OU3-SED-16-Composite]	B210897	08/22/18

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1125-01 [OU3-SED-16-Composite]	B210993	1.59	50.0	08/23/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1125-01 [OU3-SED-16-Composite]	B210814	10.6	10.0	08/22/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1125-01 [OU3-SED-16-Composite]	B210938	8.37	10.0	08/23/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1125-01 [OU3-SED-16-Composite]	B210869	30.2	1.00	08/22/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210938 - SW-846 5035										
Blank (B210938-BLK1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0519		mg/Kg wet	0.0500		104	70-130			
LCS (B210938-BS1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		100	40-130			†
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			
LCS Dup (B210938-BSD1)										
Prepared & Analyzed: 08/23/18										
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.53	25	
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.26	25	
Naphthalene	0.0187	0.0040	mg/Kg wet	0.0200		93.4	40-130	7.32	25	†
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	1.68	25	
m+p Xylene	0.0396	0.0040	mg/Kg wet	0.0400		99.0	70-130	3.13	25	
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	3.85	25	
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210869 - SW-846 3546										
Blank (B210869-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.35		mg/Kg wet	3.33		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.26		mg/Kg wet	3.33		97.7	30-130			
LCS (B210869-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Anthracene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Phenanthrene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140			
Pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg wet	3.33		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg wet	3.33		82.1	30-130			
Surrogate: p-Terphenyl-d14	3.21		mg/Kg wet	3.33		96.4	30-130			
LCS Dup (B210869-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	1.19	30	
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	0.0282	30	
Anthracene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140	0.832	30	
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	8.90	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	11.8	30	
Benzo(b)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	12.6	30	
Benzo(g,h,i)perylene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	13.1	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	10.4	30	
Chrysene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140	9.06	30	
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	0.992	30	
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	0.142	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	18.4	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 B210869 - SW-846 3546										
LCS Dup (B210869-BSD1)										
					Prepared: 08/22/18 Analyzed: 08/23/18					
Naphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	4.63	30	
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	0.827	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140	10.4	30	
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		80.9	30-130			
Surrogate: p-Terphenyl-d14	3.58		mg/Kg wet	3.33		107	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210814 - SW-846 3546										
Blank (B210814-BLK1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	ND	0.0039	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0039	mg/Kg wet							
Heptachlor Epoxide	ND	0.0049	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0049	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.183		mg/Kg wet	0.194		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.194		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.194		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.194		98.3	30-150			
LCS (B210814-BS1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.097	0.0040	mg/Kg wet	0.100		97.0	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
Heptachlor Epoxide	0.094	0.0050	mg/Kg wet	0.100		94.2	40-140			
Heptachlor Epoxide [2C]	0.097	0.0050	mg/Kg wet	0.100		96.6	40-140			
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.197		mg/Kg wet	0.200		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			
LCS Dup (B210814-BSD1)										
Prepared: 08/22/18 Analyzed: 08/23/18										
4,4'-DDD	0.078	0.0038	mg/Kg wet	0.0952		82.2	40-140	21.3	30	
4,4'-DDD [2C]	0.082	0.0038	mg/Kg wet	0.0952		85.7	40-140	21.9	30	
Heptachlor Epoxide	0.077	0.0048	mg/Kg wet	0.0952		80.6	40-140	20.3	30	
Heptachlor Epoxide [2C]	0.077	0.0048	mg/Kg wet	0.0952		81.1	40-140	22.2	30	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.190		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.190		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.190		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.133		mg/Kg wet	0.190		70.0	30-150			

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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 B210993 - SW-846 3051										
Blank (B210993-BLK1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B210993-BS1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	118	1.5	mg/Kg wet	111		107	83-117.1			
Zinc	218	2.0	mg/Kg wet	199		110	81.4-119.1			
LCS Dup (B210993-BSD1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	117	1.5	mg/Kg wet	111		105	83-117.1	1.17	30	
Zinc	213	2.0	mg/Kg wet	199		107	81.4-119.1	2.53	30	
MRL Check (B210993-MRL1)										
					Prepared: 08/23/18 Analyzed: 08/24/18					
Lead	0.666	0.49	mg/Kg wet	0.494		135 *	80-120			M-10

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM1 **Analyzed:** 08/22/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.73
Endrin [1] 1.58

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.82
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM2 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.30
Endrin [1] 2.19

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.41
Endrin [2] 2.22

BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 **Analyzed:** 08/23/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.26
Endrin [1] 2.02

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BREAKDOWN REPORT

Lab Sample ID: S026542-PEM3 Analyzed: 08/23/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.47
Endrin [2]	2.02

BREAKDOWN REPORT

Lab Sample ID: S026596-PEM1 Analyzed: 08/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.48
Endrin [1]	2.38

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.64
Endrin [2]	2.30

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210814-BS1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.336	7.306	7.366	0.097	
	2	7.420	7.391	7.451	0.10	3.1
Heptachlor Epoxide	1	6.653	6.624	6.684	0.094	
	2	6.614	6.585	6.645	0.097	3.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210814-BSD1 Date(s) Analyzed: 08/23/2018 08/23/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.337	7.306	7.366	0.078	
	2	7.420	7.391	7.451	0.082	5.0
Heptachlor Epoxide	1	6.654	6.624	6.684	0.077	
	2	6.614	6.585	6.645	0.077	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
LAND Remediation

Company Name:
Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name:
Saranac Lake Gas Co.

Project Location:
Saranac Lake OU_3

Project Number:
Matthew Warren

Project Manager:
Matthew Warren

Con-Test Quote Name/Number:
mjlw@land-remediation.com

Invoice Recipient:
mjlw@land-remediation.com

Sampled By:
Kyle Jones

Client Sample ID / Description:
OU3-SED-16-Composite

Beginning Date/Time:
8/20/15 15:42

Ending Date/Time:
8/20/15 15:44

Composite Grab
5

Matrix Code
L

Conc Code

Doc # 380 Rev 1_03242017
39 Spruce Street
East Longmeadow, MA 01028

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: CAT B - Equis

CLP Like Data Plg Required:

Email To: mjlw@land-remediation.com

Fax To #: jkl@land-remediation.com

7-Day 10-Day

Due Date:

1-Day 3-Day

2-Day 4-Day

Format: PDF EXCEL

Other: CAT B - Equis

CLP Like Data Plg Required:

Email To: mjlw@land-remediation.com

Fax To #: jkl@land-remediation.com

of Containers

Preservation Code

Container Code

Dissolved Metals Samples

Field Filtered
 Lab to Filter

Orthophosphate Samples

Field Filtered
 Lab to Filter

Matrix Codes:

GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

Preservation Codes:

I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Container Codes:

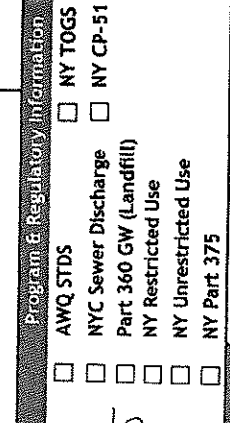
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

PCB ONLY

Soxhlet
 Non Soxhlet

Matrix	Code	Concentration	Analysis Requested
VOC	8270	x	
SVOC	8260	x	
Metals	6010	x	
			Pesticides

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



Only report analytes shown onn Table 4-3 (Attached for reference).
 Relinquished by: (signature) *[Signature]* Date/Time: 8/20/15 16:00
 Received by: (signature) *[Signature]* Date/Time: 8/20/15 16:00
 Relinquished by: (signature) *[Signature]* Date/Time: 8/20/15 16:00
 Received by: (signature) *[Signature]* Date/Time:
 Inquired by: (signature) *[Signature]* Date/Time:
 Received by: (signature) *[Signature]* Date/Time:

Program 6: Regulatory Information

AWQ STDS
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part. 375

Deliverables

Enhanced Data Package
 NYSDEC EQUIS EDD
 EQUIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hits-Only EDD

Other:

Project Entity

Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By RLF Date 8/22/18 Time 1125

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 - 5°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? Mike
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? F

Do all samples have the proper pH? _____ Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	1	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	0	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:

samples received 8/21, chain received 8/22

August 29, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1229

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1229

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-9-1s	18H1229-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-9-2s	18H1229-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-10-1s	18H1229-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-13-1s	18H1229-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-14-1s	18H1229-05	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-14-2s	18H1229-06	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-15-1s	18H1229-07	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-16-1s	18H1229-08	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1229

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-17-1s	18H1229-09	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-17-2s	18H1229-10	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C

Qualifications:

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

18H1229-08[OU3-SED-16-1s]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-1s

Sample ID: 18H1229-01

Start Date/Time: 8/23/2018 11:56:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF
Naphthalene	ND	0.0032	0.00056	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF
1,2,4-Trimethylbenzene	0.00065	0.0016	0.00064	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/28/18 0:20	MF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF
Xylenes (total)	ND	0.0048		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:20	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	99.7	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-1s

Sample ID: 18H1229-01

Start Date/Time: 8/23/2018 11:56:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.068	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Acenaphthylene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Benzo(a)anthracene	0.084	0.23	0.060	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Benzo(a)pyrene	0.087	0.23	0.070	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Benzo(b)fluoranthene	0.085	0.23	0.064	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Benzo(g,h,i)perylene	ND	0.23	0.099	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Benzo(k)fluoranthene	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Chrysene	0.075	0.23	0.070	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Fluoranthene	0.13	0.23	0.074	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Fluorene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Pyrene	0.14	0.23	0.074	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 18:35	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	63.5		30-130				8/28/18 18:35			
2-Fluorobiphenyl	68.9		30-130				8/28/18 18:35			
p-Terphenyl-d14	95.3		30-130				8/28/18 18:35			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-1s

Sample ID: 18H1229-01

Start Date/Time: 8/23/2018 11:56:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [2]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 21:10	JMB
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 21:10	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	67.6		30-150				8/28/18 21:10		
Decachlorobiphenyl [2]	62.2		30-150				8/28/18 21:10		
Tetrachloro-m-xylene [1]	69.8		30-150				8/28/18 21:10		
Tetrachloro-m-xylene [2]	64.3		30-150				8/28/18 21:10		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-1s

Sample ID: 18H1229-01

Start Date/Time: 8/23/2018 11:56:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:10:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	34	0.65	0.38	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:27	MJH
Zinc	40	0.87	0.59	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:27	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-1s

Sample ID: 18H1229-01

Start Date/Time: 8/23/2018 11:56:00AM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.5		% Wt	1		SM 2540G	8/26/18	8/27/18 8:36	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-2s

Sample ID: 18H1229-02

Start Date/Time: 8/23/2018 12:13:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF
Naphthalene	0.0013	0.0029	0.00051	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/28/18 0:47	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 0:47	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-2s

Sample ID: 18H1229-02

Start Date/Time: 8/23/2018 12:13:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Benzo(a)anthracene	0.22	0.20	0.052	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Benzo(a)pyrene	0.29	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Benzo(b)fluoranthene	0.49	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Benzo(g,h,i)perylene	0.21	0.20	0.087	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Benzo(k)fluoranthene	0.12	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Chrysene	0.50	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Fluoranthene	0.51	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Indeno(1,2,3-cd)pyrene	0.18	0.20	0.14	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Phenanthrene	0.23	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL
Pyrene	0.50	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	45.0	30-130	
2-Fluorobiphenyl	46.8	30-130	
p-Terphenyl-d14	53.7	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-2s

Sample ID: 18H1229-02

Start Date/Time: 8/23/2018 12:13:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:19:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 21:38	JMB
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 21:38	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	72.5		30-150			8/28/18 21:38			
Decachlorobiphenyl [2]	64.5		30-150			8/28/18 21:38			
Tetrachloro-m-xylene [1]	69.7		30-150			8/28/18 21:38			
Tetrachloro-m-xylene [2]	64.7		30-150			8/28/18 21:38			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-2s

Sample ID: 18H1229-02

Start Date/Time: 8/23/2018 12:13:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:19:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	71	0.58	0.34	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:32	MJH
Zinc	56	0.78	0.53	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:32	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-9-2s

Sample ID: 18H1229-02

Start Date/Time: 8/23/2018 12:13:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:19:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-10-1s

Sample ID: 18H1229-03

Start Date/Time: 8/23/2018 12:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
Isopropylbenzene (Cumene)	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
Naphthalene	ND	0.0041	0.00073	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
1,2,4-Trimethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
m+p Xylene	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
o-Xylene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF
Xylenes (total)	ND	0.0062		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:14	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	100	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-10-1s

Sample ID: 18H1229-03

Start Date/Time: 8/23/2018 12:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.20	0.25	0.075	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Acenaphthylene	0.11	0.25	0.084	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Anthracene	0.56	0.25	0.072	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Benzo(a)anthracene	0.97	0.25	0.066	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Benzo(a)pyrene	1.0	0.25	0.078	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Benzo(b)fluoranthene	0.97	0.25	0.071	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Benzo(g,h,i)perylene	0.60	0.25	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Benzo(k)fluoranthene	0.32	0.25	0.078	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Chrysene	0.93	0.25	0.078	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Fluoranthene	2.1	0.25	0.082	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Fluorene	0.29	0.25	0.081	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Indeno(1,2,3-cd)pyrene	0.51	0.25	0.18	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Phenanthrene	1.7	0.25	0.13	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Pyrene	3.0	0.25	0.082	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 19:37	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	66.0		30-130				8/28/18 19:37			
2-Fluorobiphenyl	70.8		30-130				8/28/18 19:37			
p-Terphenyl-d14	88.9		30-130				8/28/18 19:37			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-10-1s

Sample ID: 18H1229-03

Start Date/Time: 8/23/2018 12:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.059	mg/Kg dry	10		SW-846 8081B	8/26/18	8/28/18 22:05	JMB
Heptachlor epoxide [1]	ND	0.073	mg/Kg dry	10		SW-846 8081B	8/26/18	8/28/18 22:05	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.2	30-150					8/28/18 22:05	
Decachlorobiphenyl [2]		60.4	30-150					8/28/18 22:05	
Tetrachloro-m-xylene [1]		58.6	30-150					8/28/18 22:05	
Tetrachloro-m-xylene [2]		53.2	30-150					8/28/18 22:05	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-10-1s

Sample ID: 18H1229-03

Start Date/Time: 8/23/2018 12:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	72	0.72	0.43	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:37	MJH
Zinc	96	0.97	0.66	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:37	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-10-1s

Sample ID: 18H1229-03

Start Date/Time: 8/23/2018 12:22:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:30:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.4		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-13-1s

Sample ID: 18H1229-04

Start Date/Time: 8/23/2018 12:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:41:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.051		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
Isopropylbenzene (Cumene)	ND	0.051		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
Naphthalene	1.1	0.10		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
1,2,4-Trimethylbenzene	0.27	0.051		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
m+p Xylene	ND	0.10		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
o-Xylene	ND	0.051		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:10	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.4		70-130				8/27/18 11:10			
Toluene-d8	99.5		70-130				8/27/18 11:10			
4-Bromofluorobenzene	104		70-130				8/27/18 11:10			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-13-1s

Sample ID: 18H1229-04

Start Date/Time: 8/23/2018 12:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:41:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Acenaphthylene	0.46	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Anthracene	4.2	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Benzo(a)anthracene	4.8	0.21	0.057	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Benzo(a)pyrene	5.0	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Benzo(b)fluoranthene	4.0	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Benzo(g,h,i)perylene	3.1	0.21	0.094	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Benzo(k)fluoranthene	1.3	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Chrysene	4.2	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Fluoranthene	12	2.1	0.70	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 11:53	BGL
Fluorene	2.3	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Indeno(1,2,3-cd)pyrene	2.6	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Naphthalene	0.71	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:07	BGL
Phenanthrene	14	2.1	1.1	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 11:53	BGL
Pyrene	17	2.1	0.70	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 11:53	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	45.9	30-130	
Nitrobenzene-d5	42.7	30-130	
2-Fluorobiphenyl	43.7	30-130	
2-Fluorobiphenyl	50.5	30-130	
p-Terphenyl-d14	54.7	30-130	
p-Terphenyl-d14	59.8	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-13-1s

Sample ID: 18H1229-04

Start Date/Time: 8/23/2018 12:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:41:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/26/18	8/28/18 22:32	JMB
Heptachlor epoxide [1]	ND	0.063	mg/Kg dry	10		SW-846 8081B	8/26/18	8/28/18 22:32	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.3	30-150					8/28/18 22:32	
Decachlorobiphenyl [2]		74.3	30-150					8/28/18 22:32	
Tetrachloro-m-xylene [1]		63.4	30-150					8/28/18 22:32	
Tetrachloro-m-xylene [2]		55.5	30-150					8/28/18 22:32	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-13-1s

Sample ID: 18H1229-04

Start Date/Time: 8/23/2018 12:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:41:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	72	0.61	0.36	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:42	MJH
Zinc	93	0.82	0.56	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:42	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-13-1s

Sample ID: 18H1229-04

Start Date/Time: 8/23/2018 12:34:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 12:41:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-1s

Sample ID: 18H1229-05

Start Date/Time: 8/23/2018 4:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:01:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
Isopropylbenzene (Cumene)	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
Naphthalene	ND	0.0060	0.0010	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
1,2,4-Trimethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
m+p Xylene	ND	0.0060	0.0025	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
o-Xylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF
Xylenes (total)	ND	0.0090		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 1:43	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	99.2	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-1s

Sample ID: 18H1229-05

Start Date/Time: 8/23/2018 4:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:01:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.31	0.093	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Acenaphthylene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Anthracene	ND	0.31	0.089	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Benzo(a)anthracene	ND	0.31	0.082	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Benzo(a)pyrene	ND	0.31	0.097	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Benzo(b)fluoranthene	ND	0.31	0.087	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Benzo(g,h,i)perylene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Benzo(k)fluoranthene	ND	0.31	0.097	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Chrysene	ND	0.31	0.097	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Fluoranthene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Fluorene	ND	0.31	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.31	0.22	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Naphthalene	ND	0.31	0.16	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Phenanthrene	0.17	0.31	0.16	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Pyrene	0.15	0.31	0.10	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 20:37	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		37.1	30-130						8/28/18 20:37	
2-Fluorobiphenyl		36.7	30-130						8/28/18 20:37	
p-Terphenyl-d14		46.6	30-130						8/28/18 20:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-1s

Sample ID: 18H1229-05

Start Date/Time: 8/23/2018 4:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:01:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 23:00	JMB
Heptachlor epoxide [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 23:00	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.8	30-150					8/28/18 23:00	
Decachlorobiphenyl [2]		68.0	30-150					8/28/18 23:00	
Tetrachloro-m-xylene [1]		79.2	30-150					8/28/18 23:00	
Tetrachloro-m-xylene [2]		72.9	30-150					8/28/18 23:00	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-1s

Sample ID: 18H1229-05

Start Date/Time: 8/23/2018 4:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:01:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.7	0.91	0.53	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:47	MJH
Zinc	19	1.2	0.83	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:47	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-1s

Sample ID: 18H1229-05

Start Date/Time: 8/23/2018 4:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:01:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	54.7		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-2s

Sample ID: 18H1229-06

Start Date/Time: 8/23/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:10	MF
Isopropylbenzene (Cumene)	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:10	MF
Naphthalene	0.0048	0.0060	0.0010	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/28/18 2:10	MF
1,2,4-Trimethylbenzene	0.0014	0.0030	0.0012	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/28/18 2:10	MF
m+p Xylene	ND	0.0060	0.0025	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:10	MF
o-Xylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:10	MF
Xylenes (total)	ND	0.0090		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:10	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	94.2	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-2s

Sample ID: 18H1229-06

Start Date/Time: 8/23/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.43	0.34	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Acenaphthylene	ND	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Anthracene	0.77	0.34	0.098	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Benzo(a)anthracene	0.80	0.34	0.090	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Benzo(a)pyrene	0.87	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Benzo(b)fluoranthene	0.63	0.34	0.096	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Benzo(g,h,i)perylene	0.51	0.34	0.15	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Benzo(k)fluoranthene	0.24	0.34	0.11	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Chrysene	0.75	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Fluoranthene	1.5	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Fluorene	0.44	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Indeno(1,2,3-cd)pyrene	0.41	0.34	0.24	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Naphthalene	ND	0.34	0.17	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Phenanthrene	2.3	0.34	0.18	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Pyrene	2.9	0.34	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:06	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	47.6		30-130						8/28/18 21:06	
2-Fluorobiphenyl	47.0		30-130						8/28/18 21:06	
p-Terphenyl-d14	61.0		30-130						8/28/18 21:06	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-2s

Sample ID: 18H1229-06

Start Date/Time: 8/23/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 23:27	JMB
Heptachlor epoxide [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	8/26/18	8/28/18 23:27	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	72.8		30-150				8/28/18 23:27		
Decachlorobiphenyl [2]	67.0		30-150				8/28/18 23:27		
Tetrachloro-m-xylene [1]	71.3		30-150				8/28/18 23:27		
Tetrachloro-m-xylene [2]	63.2		30-150				8/28/18 23:27		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-2s

Sample ID: 18H1229-06

Start Date/Time: 8/23/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:10:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	8.8	0.97	0.57	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:52	MJH
Zinc	23	1.3	0.89	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:52	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-14-2s

Sample ID: 18H1229-06

Start Date/Time: 8/23/2018 5:05:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	50.0		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-15-1s

Sample ID: 18H1229-07

Start Date/Time: 8/23/2018 5:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:21:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
Naphthalene	0.0038	0.0029	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
1,2,4-Trimethylbenzene	0.0022	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 2:37	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	97.9	70-130	
4-Bromofluorobenzene	99.7	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-15-1s

Sample ID: 18H1229-07

Start Date/Time: 8/23/2018 5:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:21:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Benzo(a)anthracene	0.070	0.20	0.053	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Benzo(a)pyrene	0.075	0.20	0.063	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Benzo(b)fluoranthene	0.059	0.20	0.057	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Fluoranthene	0.12	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Phenanthrene	0.21	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Pyrene	0.21	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 21:35	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		65.6	30-130						8/28/18 21:35	
2-Fluorobiphenyl		65.1	30-130						8/28/18 21:35	
p-Terphenyl-d14		83.8	30-130						8/28/18 21:35	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-15-1s

Sample ID: 18H1229-07

Start Date/Time: 8/23/2018 5:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:21:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	0.0075	0.0045	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 2:38	JMB
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 2:38	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	82.6		30-150				8/29/18 2:38		
Decachlorobiphenyl [2]	75.2		30-150				8/29/18 2:38		
Tetrachloro-m-xylene [1]	79.6		30-150				8/29/18 2:38		
Tetrachloro-m-xylene [2]	70.8		30-150				8/29/18 2:38		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-15-1s

Sample ID: 18H1229-07

Start Date/Time: 8/23/2018 5:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:21:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	11	0.59	0.35	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:57	MJH
Zinc	16	0.79	0.54	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 11:57	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-15-1s

Sample ID: 18H1229-07

Start Date/Time: 8/23/2018 5:17:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:21:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-16-1s

Sample ID: 18H1229-08

Start Date/Time: 8/23/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:30:00PM

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.29		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
Isopropylbenzene (Cumene)	ND	0.29		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
Naphthalene	18	0.57		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
1,2,4-Trimethylbenzene	0.78	0.29		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
m+p Xylene	ND	0.57		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
o-Xylene	ND	0.29		mg/Kg dry	4		SW-846 8260C	8/27/18	8/27/18 11:37	MF
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		92.6		70-130				8/27/18	11:37	
Toluene-d8		99.8		70-130				8/27/18	11:37	
4-Bromofluorobenzene		98.3		70-130				8/27/18	11:37	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-16-1s

Sample ID: 18H1229-08

Start Date/Time: 8/23/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:30:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	15	2.4	0.72	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Acenaphthylene	0.83	0.24	0.080	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Anthracene	9.9	2.4	0.69	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Benzo(a)anthracene	6.7	2.4	0.63	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Benzo(a)pyrene	5.5	0.24	0.075	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Benzo(b)fluoranthene	4.1	0.24	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Benzo(g,h,i)perylene	3.1	0.24	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Benzo(k)fluoranthene	1.4	0.24	0.075	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Chrysene	5.1	0.24	0.075	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
Fluoranthene	15	2.4	0.79	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Fluorene	7.6	2.4	0.77	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Indeno(1,2,3-cd)pyrene	2.8	0.24	0.17	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:04	BGL
2-Methylnaphthalene	26	2.4	0.83	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Naphthalene	13	2.4	1.2	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Phenanthrene	36	2.4	1.2	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Pyrene	23	2.4	0.79	mg/Kg dry	10		SW-846 8270D	8/26/18	8/29/18 12:23	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	63.0		30-130				8/28/18 22:04			
Nitrobenzene-d5	54.2		30-130				8/29/18 12:23			
2-Fluorobiphenyl	63.3		30-130				8/28/18 22:04			
2-Fluorobiphenyl	76.7		30-130				8/29/18 12:23			
p-Terphenyl-d14	94.5		30-130				8/28/18 22:04			
p-Terphenyl-d14	86.5		30-130				8/29/18 12:23			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-16-1s

Sample ID: 18H1229-08

Start Date/Time: 8/23/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:30:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.056	mg/Kg dry	10		SW-846 8081B	8/26/18	8/29/18 3:05	JMB
Heptachlor epoxide [1]	ND	0.070	mg/Kg dry	10		SW-846 8081B	8/26/18	8/29/18 3:05	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	72.9		30-150					8/29/18 3:05	
Decachlorobiphenyl [2]	73.8		30-150					8/29/18 3:05	
Tetrachloro-m-xylene [1]	63.2		30-150					8/29/18 3:05	
Tetrachloro-m-xylene [2]	58.0		30-150					8/29/18 3:05	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-16-1s

Sample ID: 18H1229-08

Start Date/Time: 8/23/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:30:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	43	0.71	0.42	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:01	MJH
Zinc	68	0.95	0.65	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:01	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-16-1s

Sample ID: 18H1229-08

Start Date/Time: 8/23/2018 5:25:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:30:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.7		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-1s

Sample ID: 18H1229-09

Start Date/Time: 8/23/2018 5:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:38:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
Naphthalene	ND	0.0030	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:05	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-1s

Sample ID: 18H1229-09

Start Date/Time: 8/23/2018 5:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:38:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 22:33	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		59.8	30-130						8/28/18 22:33	
2-Fluorobiphenyl		61.0	30-130						8/28/18 22:33	
p-Terphenyl-d14		96.9	30-130						8/28/18 22:33	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-1s

Sample ID: 18H1229-09

Start Date/Time: 8/23/2018 5:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:38:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 3:32	JMB
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 3:32	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	77.1		30-150				8/29/18 3:32		
Decachlorobiphenyl [2]	73.2		30-150				8/29/18 3:32		
Tetrachloro-m-xylene [1]	73.4		30-150				8/29/18 3:32		
Tetrachloro-m-xylene [2]	68.0		30-150				8/29/18 3:32		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-1s

Sample ID: 18H1229-09

Start Date/Time: 8/23/2018 5:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:38:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.71	0.57	0.33	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:06	MJH
Zinc	11	0.76	0.52	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:06	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-1s

Sample ID: 18H1229-09

Start Date/Time: 8/23/2018 5:33:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:38:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	8/26/18	8/27/18 8:37	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-2s

Sample ID: 18H1229-10

Start Date/Time: 8/23/2018 5:39:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:46:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
Naphthalene	0.022	0.0028	0.00048	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
o-Xylene	ND	0.0014	0.00048	mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	8/27/18	8/28/18 3:32	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-2s

Sample ID: 18H1229-10

Start Date/Time: 8/23/2018 5:39:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:46:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.083	0.20	0.060	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Anthracene	0.13	0.20	0.058	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Benzo(a)anthracene	0.092	0.20	0.053	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Benzo(a)pyrene	0.088	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Benzo(b)fluoranthene	0.069	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Chrysene	0.076	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Fluoranthene	0.20	0.20	0.066	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Phenanthrene	0.37	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL
Pyrene	0.36	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/26/18	8/28/18 23:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	59.3	30-130	
2-Fluorobiphenyl	64.1	30-130	
p-Terphenyl-d14	99.3	30-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-2s

Sample ID: 18H1229-10

Start Date/Time: 8/23/2018 5:39:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:46:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 3:59	JMB
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 3:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.4	30-150					8/29/18 3:59	
Decachlorobiphenyl [2]		69.0	30-150					8/29/18 3:59	
Tetrachloro-m-xylene [1]		69.2	30-150					8/29/18 3:59	
Tetrachloro-m-xylene [2]		64.6	30-150					8/29/18 3:59	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-2s

Sample ID: 18H1229-10

Start Date/Time: 8/23/2018 5:39:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:46:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.1	0.58	0.34	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:11	MJH
Zinc	14	0.77	0.53	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 12:11	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1229

Date Received: 8/24/2018

Field Sample #: OU3-SED-17-2s

Sample ID: 18H1229-10

Start Date/Time: 8/23/2018 5:39:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:46:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	8/26/18	8/27/18 8:38	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1229-01 [OU3-SED-9-1s]	B211157	08/26/18
18H1229-02 [OU3-SED-9-2s]	B211157	08/26/18
18H1229-03 [OU3-SED-10-1s]	B211157	08/26/18
18H1229-04 [OU3-SED-13-1s]	B211157	08/26/18
18H1229-05 [OU3-SED-14-1s]	B211157	08/26/18
18H1229-06 [OU3-SED-14-2s]	B211157	08/26/18
18H1229-07 [OU3-SED-15-1s]	B211157	08/26/18
18H1229-08 [OU3-SED-16-1s]	B211157	08/26/18
18H1229-09 [OU3-SED-17-1s]	B211157	08/26/18
18H1229-10 [OU3-SED-17-2s]	B211157	08/26/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1229-01 [OU3-SED-9-1s]	B211296	1.53	50.0	08/28/18
18H1229-02 [OU3-SED-9-2s]	B211296	1.53	50.0	08/28/18
18H1229-03 [OU3-SED-10-1s]	B211296	1.54	50.0	08/28/18
18H1229-04 [OU3-SED-13-1s]	B211296	1.55	50.0	08/28/18
18H1229-05 [OU3-SED-14-1s]	B211296	1.51	50.0	08/28/18
18H1229-06 [OU3-SED-14-2s]	B211296	1.54	50.0	08/28/18
18H1229-07 [OU3-SED-15-1s]	B211296	1.51	50.0	08/28/18
18H1229-08 [OU3-SED-16-1s]	B211296	1.52	50.0	08/28/18
18H1229-09 [OU3-SED-17-1s]	B211296	1.55	50.0	08/28/18
18H1229-10 [OU3-SED-17-2s]	B211296	1.53	50.0	08/28/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1229-01 [OU3-SED-9-1s]	B211151	10.6	10.0	08/26/18
18H1229-02 [OU3-SED-9-2s]	B211151	10.2	10.0	08/26/18
18H1229-03 [OU3-SED-10-1s]	B211151	10.1	10.0	08/26/18
18H1229-04 [OU3-SED-13-1s]	B211151	10.0	10.0	08/26/18
18H1229-05 [OU3-SED-14-1s]	B211151	10.2	10.0	08/26/18
18H1229-06 [OU3-SED-14-2s]	B211151	10.0	10.0	08/26/18
18H1229-07 [OU3-SED-15-1s]	B211151	10.5	10.0	08/26/18
18H1229-08 [OU3-SED-16-1s]	B211151	10.3	10.0	08/26/18
18H1229-09 [OU3-SED-17-1s]	B211151	10.3	10.0	08/26/18
18H1229-10 [OU3-SED-17-2s]	B211151	10.6	10.0	08/26/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H1229-04 [OU3-SED-13-1s]	B211161	8.40	6.75	1	50	08/27/18
18H1229-08 [OU3-SED-16-1s]	B211161	7.19	7.18	0.25	50	08/27/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1229-01 [OU3-SED-9-1s]	B211211	8.31	10.0	08/27/18
18H1229-02 [OU3-SED-9-2s]	B211211	8.07	10.0	08/27/18

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1229-03 [OU3-SED-10-1s]	B211211	7.15	10.0	08/27/18
18H1229-05 [OU3-SED-14-1s]	B211211	6.12	10.0	08/27/18
18H1229-06 [OU3-SED-14-2s]	B211211	6.69	10.0	08/27/18
18H1229-07 [OU3-SED-15-1s]	B211211	8.12	10.0	08/27/18
18H1229-09 [OU3-SED-17-1s]	B211211	7.91	10.0	08/27/18
18H1229-10 [OU3-SED-17-2s]	B211211	8.56	10.0	08/27/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1229-01 [OU3-SED-9-1s]	B211152	30.0	1.00	08/26/18
18H1229-02 [OU3-SED-9-2s]	B211152	30.5	1.00	08/26/18
18H1229-03 [OU3-SED-10-1s]	B211152	30.3	1.00	08/26/18
18H1229-04 [OU3-SED-13-1s]	B211152	30.1	1.00	08/26/18
18H1229-04RE1 [OU3-SED-13-1s]	B211152	30.1	1.00	08/26/18
18H1229-05 [OU3-SED-14-1s]	B211152	30.1	1.00	08/26/18
18H1229-06 [OU3-SED-14-2s]	B211152	30.1	1.00	08/26/18
18H1229-07 [OU3-SED-15-1s]	B211152	30.1	1.00	08/26/18
18H1229-08 [OU3-SED-16-1s]	B211152	30.6	1.00	08/26/18
18H1229-08RE1 [OU3-SED-16-1s]	B211152	30.6	1.00	08/26/18
18H1229-09 [OU3-SED-17-1s]	B211152	30.1	1.00	08/26/18
18H1229-10 [OU3-SED-17-2s]	B211152	30.2	1.00	08/26/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211161 - SW-846 5035

Blank (B211161-BLK1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	ND	0.050	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0272		mg/Kg wet	0.0250		109	70-130			
Surrogate: Toluene-d8	0.0249		mg/Kg wet	0.0250		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		98.1	70-130			

LCS (B211161-BS1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Isopropylbenzene (Cumene)	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Naphthalene	0.0109	0.0023	mg/Kg wet	0.0113		95.9	40-130			†
1,2,4-Trimethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
m+p Xylene	0.0250	0.0023	mg/Kg wet	0.0227		110	70-130			
o-Xylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0276		mg/Kg wet	0.0283		97.4	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0285		mg/Kg wet	0.0283		100	70-130			

LCS Dup (B211161-BSD1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	0.988	25	
Isopropylbenzene (Cumene)	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	0.875	25	
Naphthalene	0.0123	0.0023	mg/Kg wet	0.0113		108	40-130	12.1	25	†
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130	2.82	25	
m+p Xylene	0.0246	0.0023	mg/Kg wet	0.0227		108	70-130	1.60	25	
o-Xylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	0.183	25	
Surrogate: 1,2-Dichloroethane-d4	0.0261		mg/Kg wet	0.0283		92.1	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0285		mg/Kg wet	0.0283		101	70-130			

Batch B211211 - SW-846 5035

Blank (B211211-BLK1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211211 - SW-846 5035										
LCS (B211211-BS1)										
Prepared & Analyzed: 08/27/18										
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Naphthalene	0.0182	0.0040	mg/Kg wet	0.0200		91.2	40-130			†
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211211-BSD1)										
Prepared & Analyzed: 08/27/18										
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.194	25	
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.52	25	
Naphthalene	0.0167	0.0040	mg/Kg wet	0.0200		83.6	40-130	8.70	25	†
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	1.53	25	
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130	0.893	25	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	1.95	25	
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211152 - SW-846 3546										
Blank (B211152-BLK1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.10		mg/Kg wet	3.33		62.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.11		mg/Kg wet	3.33		63.4	30-130			
Surrogate: p-Terphenyl-d14	2.95		mg/Kg wet	3.33		88.5	30-130			
LCS (B211152-BS1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140			
Acenaphthylene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140			
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140			
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Benzo(g,h,i)perylene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Benzo(k)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Fluorene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Naphthalene	0.977	0.17	mg/Kg wet	1.67		58.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: p-Terphenyl-d14	2.76		mg/Kg wet	3.33		82.7	30-130			
LCS Dup (B211152-BSD1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140	4.77	30	
Acenaphthylene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140	1.59	30	
Anthracene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	2.09	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	0.487	30	
Benzo(a)pyrene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	0.441	30	
Benzo(b)fluoranthene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	1.70	30	
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	0.916	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	0.806	30	
Chrysene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	1.92	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	0.154	30	
Fluorene	0.924	0.17	mg/Kg wet	1.67		55.4	40-140	2.04	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140	0.531	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211152 - SW-846 3546

LCS Dup (B211152-BSD1)

Prepared: 08/26/18 Analyzed: 08/28/18

Naphthalene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140	7.91	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	1.04	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	2.56	30	
Surrogate: Nitrobenzene-d5	1.94		mg/Kg wet	3.33		58.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg wet	3.33		61.9	30-130			
Surrogate: p-Terphenyl-d14	2.64		mg/Kg wet	3.33		79.1	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211151 - SW-846 3546										
Blank (B211151-BLK1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.143		mg/Kg wet	0.200		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.139		mg/Kg wet	0.200		69.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.135		mg/Kg wet	0.200		67.3	30-150			
LCS (B211151-BS1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140			
4,4'-DDD [2C]	0.080	0.0040	mg/Kg wet	0.100		79.5	40-140			
Heptachlor Epoxide	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140			
Heptachlor Epoxide [2C]	0.076	0.0050	mg/Kg wet	0.100		76.3	40-140			
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.8	30-150			
LCS Dup (B211151-BSD1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		86.4	40-140	8.43	30	
4,4'-DDD [2C]	0.088	0.0040	mg/Kg wet	0.100		88.1	40-140	10.2	30	
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140	6.62	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.2	40-140	7.48	30	
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			
Matrix Spike (B211151-MS1)										
Source: 18H1229-07 Prepared: 08/26/18 Analyzed: 08/29/18										
4,4'-DDD	0.11	0.0047	mg/Kg dry	0.119	0.0075	87.9	30-150			
4,4'-DDD [2C]	0.11	0.0047	mg/Kg dry	0.119	0.0072	88.9	30-150			
Heptachlor Epoxide	0.10	0.0059	mg/Kg dry	0.119	ND	84.9	30-150			
Heptachlor Epoxide [2C]	0.10	0.0059	mg/Kg dry	0.119	ND	85.0	30-150			
Surrogate: Decachlorobiphenyl	0.211		mg/Kg dry	0.237		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg dry	0.237		80.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg dry	0.237		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg dry	0.237		80.1	30-150			
Matrix Spike Dup (B211151-MSD1)										
Source: 18H1229-07 Prepared: 08/26/18 Analyzed: 08/29/18										
4,4'-DDD	0.094	0.0047	mg/Kg dry	0.119	0.0075	73.1	30-150	17.1	30	
4,4'-DDD [2C]	0.094	0.0047	mg/Kg dry	0.119	0.0072	73.1	30-150	18.1	30	
Heptachlor Epoxide	0.085	0.0059	mg/Kg dry	0.119	ND	71.7	30-150	16.8	30	
Heptachlor Epoxide [2C]	0.084	0.0059	mg/Kg dry	0.119	ND	70.5	30-150	18.7	30	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.237		73.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg dry	0.237		67.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg dry	0.237		72.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg dry	0.237		65.8	30-150			

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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 B211296 - SW-846 3050B										
Blank (B211296-BLK1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	ND	0.49	mg/Kg wet							
Zinc	ND	0.65	mg/Kg wet							
LCS (B211296-BS1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	111	1.5	mg/Kg wet	111		100	83-117.1			
Zinc	204	2.0	mg/Kg wet	199		103	81.4-119.1			
LCS Dup (B211296-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	113	1.5	mg/Kg wet	111		102	83-117.1	1.18	30	
Zinc	202	2.0	mg/Kg wet	199		101	81.4-119.1	1.13	30	
MRL Check (B211296-MRL1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	0.532	0.50	mg/Kg wet	0.497		107	80-120			

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.11
Endrin [1] 3.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.21
Endrin [2] 3.80

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.83
Endrin [1] 3.38

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.95
Endrin [2] 3.44

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 3.36

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 Analyzed: 08/29/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	6.14
Endrin [2]	3.83

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM4 Analyzed: 08/29/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	5.06
Endrin [1]	3.43

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	5.21
Endrin [2]	3.41

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

OU3-SED-15-1s

SW-846 8081B

Lab Sample ID: 18H1229-07 Date(s) Analyzed 08/29/2018 08/29/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.319	7.289	7.349	0.0075	
	2	7.409	7.379	7.439	0.0072	4.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211151-BS1 Date(s) Analyzed 08/28/2018 08/28/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.322	7.292	7.352	0.079	
	2	7.410	7.380	7.440	0.080	1.3
Heptachlor Epoxide	1	6.641	6.610	6.670	0.077	
	2	6.605	6.575	6.635	0.076	1.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B211151-BSD1 Date(s) Analyzed 08/28/2018 08/28/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.321	7.292	7.352	0.086	
	2	7.410	7.380	7.440	0.088	2.3
Heptachlor Epoxide	1	6.640	6.610	6.670	0.082	
	2	6.606	6.575	6.635	0.082	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B211151-MS1 Date(s) Analyzed 08/29/2018 08/29/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.321	7.289	7.349	0.11	
	2	7.404	7.379	7.439	0.11	0.0
Heptachlor Epoxide	1	6.640	6.608	6.668	0.10	
	2	6.601	6.574	6.634	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B211151-MSD1 Date(s) Analyzed 08/29/2018 08/29/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.319	7.289	7.349	0.094	
	2	7.408	7.379	7.439	0.094	0.0
Heptachlor Epoxide	1	6.639	6.608	6.668	0.085	
	2	6.603	6.574	6.634	0.084	1.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
RL-11	Elevated reporting limit due to high concentration of target compounds.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

CHAIN OF CUSTODY RECORD (New York)

18H1229
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

LAND Remediation

New York 12188

Project Name: Saranac Lake OU_3

Project Location: Saranac Lake Gas Co.

Project Number: Matthew Warren

Project Manager: Matthew Warren

Con-Test Quote Name/Number: mjw@land-remediation.com

Invoice Recipient: mjw@land-remediation.com

Sampled By: Kyle Jones

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

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: CAT B - Equis

CLP Like Data Pkg Required:

Email To: mjw@land-remediation.com

Fax To #: JKL@land-remediation.com

1 Matrix Code

Conc Code

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	OU3-SED-9-1S	8/23/2018 11:56	8/23/2018 12:10	X	X	S	L
2	OU3-SED-9-2S	8/23/2018 12:13	8/23/2018 12:19	X	X	S	L
3	OU3-SED-10-1S	8/23/2018 12:22	8/23/2018 12:30	X	X	S	L
4	OU3-SED-13-1S	8/23/2018 12:34	8/23/2018 12:41	X	X	S	L
5	OU3-SED-14-1S	8/23/2018 16:56	8/23/2018 17:04	X	X	S	L
6	OU3-SED-14-2S	8/23/2018 17:05	8/23/2018 17:10	X	X	S	L
7	OU3-SED-15-1S	8/23/2018 17:17	8/23/2018 17:21	X	X	S	L
8	OU3-SED-16-1S	8/23/2018 17:25	8/23/2018 17:30	X	X	S	L
9	OU3-SED-17-1S	8/23/2018 17:33	8/23/2018 17:38	X	X	S	L
10	OU3-SED-17-2S	8/23/2018 17:39	8/23/2018 17:46	X	X	S	L

# of Containers	1	2	3	4	5	6	7	8	9	10
2 Preservation Code										
3 Container Code										
ANALYSIS REQUESTED										
Field Filtered <input type="checkbox"/>										
Lab to Filter <input type="checkbox"/>										
Field Filtered <input type="checkbox"/>										
Lab to Filter <input type="checkbox"/>										
Dissolved Metals Samples										
Field Filtered <input type="checkbox"/>										
Lab to Filter <input type="checkbox"/>										
Orthophosphate Samples										
Field Filtered <input type="checkbox"/>										
Lab to Filter <input type="checkbox"/>										
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)										

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

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature) Date/Time: 8/24 9:00

Received by: (signature) Date/Time: 8-24-18 9:00K

Relinquished by: (signature) Date/Time: 8-24-18 1330

Received by: (signature) Date/Time: 8-24-18 1330

Relinquished by: (signature) Date/Time: 8-24-18 14:35

Received by: (signature) Date/Time: 8-24-18 14:35

Program & Regulatory Information

AWQ STDS NY TOGS

NYC Sewer Discharge NY CP-51

Part 360 GW (Landfill)

NY Restricted Use

NY Unrestricted Use

NY Part 375

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Other: WRTA MWRA School MBTA

Municipality 21 J Brownfield

Government Federal City

Other: Chromatogram AIHA-LAP, LLC

Project Entity

NEUAC and AIHA-LAP, LLC Accredited

Date/Time: 8/24 9:00

Date/Time: 8-24-18 9:00K

Date/Time: 8-24-18 1330

Date/Time: 8-24-18 1330

Date/Time: 8-24-18 14:35

Date/Time: 8-24-18 14:35

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Lanz Remediation

Received By ESD Date 8.24.18 Time 14:35

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 # 595 Actual Temp - 5.2
 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? Mike, Eric
 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? + Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>10</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>20</u>	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:

August 27, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1230

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1230

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-9 Composite	18H1230-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-11 Composite	18H1230-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-1 Composite	18H1230-03	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-2 Composite	18H1230-04	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-3 Composite	18H1230-05	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopycinski". The signature is written in a cursive, flowing style.

Tod E. Kopycinski
Laboratory Director



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-9 Composite

Sample ID: 18H1230-01

Start Date/Time: 8/22/2018 12:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 12:51:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF
Isopropylbenzene (Cumene)	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF
Naphthalene	0.0013	0.0031	0.00055	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/27/18 8:20	MF
1,2,4-Trimethylbenzene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF
Xylenes (total)	ND	0.0047		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:20	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	113	70-130	
Toluene-d8	99.9	70-130	
4-Bromofluorobenzene	101	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-9 Composite

Sample ID: 18H1230-01

Start Date/Time: 8/22/2018 12:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 12:51:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Benzo(a)anthracene	0.079	0.21	0.055	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Benzo(a)pyrene	0.076	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Benzo(b)fluoranthene	0.065	0.21	0.058	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Chrysene	0.079	0.21	0.065	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Fluoranthene	0.13	0.21	0.068	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL
Pyrene	0.21	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 14:35	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	74.6	30-130	
2-Fluorobiphenyl	74.8	30-130	
p-Terphenyl-d14	93.1	30-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-9 Composite

Sample ID: 18H1230-01

Start Date/Time: 8/22/2018 12:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 12:51:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 17:42	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 17:42	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.8	30-150					8/25/18 17:42	
Decachlorobiphenyl [2]		71.6	30-150					8/25/18 17:42	
Tetrachloro-m-xylene [1]		71.7	30-150					8/25/18 17:42	
Tetrachloro-m-xylene [2]		65.4	30-150					8/25/18 17:42	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-9 Composite

Sample ID: 18H1230-01

Start Date/Time: 8/22/2018 12:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 12:51:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.9	0.61	0.36	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 13:59	QNW
Zinc	19	0.81	0.55	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 13:59	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-9 Composite

Sample ID: 18H1230-01

Start Date/Time: 8/22/2018 12:44:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 12:51:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.1		% Wt	1		SM 2540G	8/24/18	8/25/18 10:37	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-11 Composite

Sample ID: 18H1230-02

Start Date/Time: 8/22/2018 9:55:00AM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 10:01:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF
Naphthalene	0.0016	0.0029	0.00051	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/27/18 8:47	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF
m+p Xylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF
o-Xylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF
Xylenes (total)	ND	0.0044		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 8:47	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	111	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	103	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-11 Composite

Sample ID: 18H1230-02

Start Date/Time: 8/22/2018 9:55:00AM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 10:01:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Benzo(a)anthracene	0.066	0.21	0.056	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Benzo(a)pyrene	0.069	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Benzo(b)fluoranthene	0.062	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Chrysene	0.067	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Fluoranthene	0.12	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Phenanthrene	0.15	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL
Pyrene	0.18	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	63.4	30-130	
2-Fluorobiphenyl	68.0	30-130	
p-Terphenyl-d14	86.2	30-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-11 Composite

Sample ID: 18H1230-02

Start Date/Time: 8/22/2018 9:55:00AM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 10:01:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 18:09	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 18:09	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.1	30-150					8/25/18 18:09	
Decachlorobiphenyl [2]		75.9	30-150					8/25/18 18:09	
Tetrachloro-m-xylene [1]		74.6	30-150					8/25/18 18:09	
Tetrachloro-m-xylene [2]		67.5	30-150					8/25/18 18:09	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-11 Composite

Sample ID: 18H1230-02

Start Date/Time: 8/22/2018 9:55:00AM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 10:01:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.1	0.60	0.35	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:04	QNW
Zinc	18	0.80	0.55	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:04	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-11 Composite

Sample ID: 18H1230-02

Start Date/Time: 8/22/2018 9:55:00AM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 10:01:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	8/24/18	8/25/18 10:37	MAT



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-1 Composite

Sample ID: 18H1230-03

Start Date/Time: 8/22/2018 3:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:11:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0013	0.00050	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00044	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
Naphthalene	ND	0.0025	0.00044	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00050	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
m+p Xylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
o-Xylene	ND	0.0013	0.00044	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF
Xylenes (total)	ND	0.0038		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:14	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	99.1	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-1 Composite

Sample ID: 18H1230-03

Start Date/Time: 8/22/2018 3:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:11:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Anthracene	0.065	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Benzo(a)anthracene	0.18	0.21	0.056	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Benzo(a)pyrene	0.21	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Benzo(b)fluoranthene	0.22	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Benzo(g,h,i)perylene	0.10	0.21	0.094	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Benzo(k)fluoranthene	0.084	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Chrysene	0.17	0.21	0.066	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Fluoranthene	0.28	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Phenanthrene	0.18	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Pyrene	0.31	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 17:41	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	61.7		30-130				8/25/18 17:41			
2-Fluorobiphenyl	65.0		30-130				8/25/18 17:41			
p-Terphenyl-d14	76.3		30-130				8/25/18 17:41			



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-1 Composite

Sample ID: 18H1230-03

Start Date/Time: 8/22/2018 3:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:11:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 18:36	TG
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 18:36	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.1	30-150					8/25/18 18:36	
Decachlorobiphenyl [2]		66.0	30-150					8/25/18 18:36	
Tetrachloro-m-xylene [1]		70.5	30-150					8/25/18 18:36	
Tetrachloro-m-xylene [2]		63.6	30-150					8/25/18 18:36	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-1 Composite

Sample ID: 18H1230-03

Start Date/Time: 8/22/2018 3:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:11:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	53	0.63	0.37	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:09	QNW
Zinc	110	0.84	0.58	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:09	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-1 Composite

Sample ID: 18H1230-03

Start Date/Time: 8/22/2018 3:06:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.2		% Wt	1		SM 2540G	8/24/18	8/25/18 10:37	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1230-04

Start Date/Time: 8/22/2018 4:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 4:57:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
Naphthalene	ND	0.0031	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
1,2,4-Trimethylbenzene	0.0021	0.0015	0.00061	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
m+p Xylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
o-Xylene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF
Xylenes (total)	ND	0.0046		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 9:42	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	99.7	70-130	
4-Bromofluorobenzene	101	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1230-04

Start Date/Time: 8/22/2018 4:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 4:57:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Benzo(a)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Benzo(a)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Chrysene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:07	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		60.4	30-130						8/25/18 18:07	
2-Fluorobiphenyl		65.4	30-130						8/25/18 18:07	
p-Terphenyl-d14		81.3	30-130						8/25/18 18:07	

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1230-04

Start Date/Time: 8/22/2018 4:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 4:57:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:03	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:03	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.0	30-150					8/25/18 19:03	
Decachlorobiphenyl [2]		72.8	30-150					8/25/18 19:03	
Tetrachloro-m-xylene [1]		76.3	30-150					8/25/18 19:03	
Tetrachloro-m-xylene [2]		69.5	30-150					8/25/18 19:03	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1230-04

Start Date/Time: 8/22/2018 4:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 4:57:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.6	0.62	0.36	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:14	QNW
Zinc	17	0.82	0.57	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:14	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1230-04

Start Date/Time: 8/22/2018 4:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 4:57:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.3		% Wt	1		SM 2540G	8/24/18	8/25/18 10:37	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-3 Composite

Sample ID: 18H1230-05

Start Date/Time: 8/22/2018 5:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 5:57:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
Naphthalene	ND	0.0030	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
1,2,4-Trimethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:09	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	98.5	70-130	
4-Bromofluorobenzene	101	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-3 Composite

Sample ID: 18H1230-05

Start Date/Time: 8/22/2018 5:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 5:57:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Benzo(a)pyrene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Benzo(k)fluoranthene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Chrysene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Fluorene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Pyrene	0.079	0.21	0.070	mg/Kg dry	1	J	SW-846 8270D	8/24/18	8/25/18 18:32	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	54.3		30-130				8/25/18 18:32			
2-Fluorobiphenyl	60.8		30-130				8/25/18 18:32			
p-Terphenyl-d14	80.8		30-130				8/25/18 18:32			



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-3 Composite

Sample ID: 18H1230-05

Start Date/Time: 8/22/2018 5:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 5:57:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:30	TG
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	8/24/18	8/25/18 19:30	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.2	30-150					8/25/18 19:30	
Decachlorobiphenyl [2]		72.5	30-150					8/25/18 19:30	
Tetrachloro-m-xylene [1]		71.6	30-150					8/25/18 19:30	
Tetrachloro-m-xylene [2]		66.1	30-150					8/25/18 19:30	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-3 Composite

Sample ID: 18H1230-05

Start Date/Time: 8/22/2018 5:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 5:57:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.4	0.61	0.36	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:19	QNW
Zinc	17	0.81	0.55	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 14:19	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1230

Date Received: 8/24/2018

Field Sample #: OU3-SED-3 Composite

Sample ID: 18H1230-05

Start Date/Time: 8/22/2018 5:50:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 5:57:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.5		% Wt	1		SM 2540G	8/24/18	8/25/18 10:37	MAT



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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1230-01 [OU3-SED-9 Composite]	B211106	08/24/18
18H1230-02 [OU3-SED-11 Composite]	B211106	08/24/18
18H1230-03 [OU3-SED-1 Composite]	B211106	08/24/18
18H1230-04 [OU3-SED-2 Composite]	B211106	08/24/18
18H1230-05 [OU3-SED-3 Composite]	B211106	08/24/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1230-01 [OU3-SED-9 Composite]	B211116	1.51	50.0	08/25/18
18H1230-02 [OU3-SED-11 Composite]	B211116	1.55	50.0	08/25/18
18H1230-03 [OU3-SED-1 Composite]	B211116	1.50	50.0	08/25/18
18H1230-04 [OU3-SED-2 Composite]	B211116	1.53	50.0	08/25/18
18H1230-05 [OU3-SED-3 Composite]	B211116	1.54	50.0	08/25/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1230-01 [OU3-SED-9 Composite]	B211093	10.3	10.0	08/24/18
18H1230-02 [OU3-SED-11 Composite]	B211093	10.4	10.0	08/24/18
18H1230-03 [OU3-SED-1 Composite]	B211093	10.2	10.0	08/24/18
18H1230-04 [OU3-SED-2 Composite]	B211093	10.5	10.0	08/24/18
18H1230-05 [OU3-SED-3 Composite]	B211093	10.4	10.0	08/24/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1230-01 [OU3-SED-9 Composite]	B211193	7.79	10.0	08/27/18
18H1230-02 [OU3-SED-11 Composite]	B211193	8.56	10.0	08/27/18
18H1230-03 [OU3-SED-1 Composite]	B211193	10.1	10.0	08/27/18
18H1230-04 [OU3-SED-2 Composite]	B211193	8.21	10.0	08/27/18
18H1230-05 [OU3-SED-3 Composite]	B211193	8.29	10.0	08/27/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1230-01 [OU3-SED-9 Composite]	B211099	30.0	1.00	08/24/18
18H1230-02 [OU3-SED-11 Composite]	B211099	30.1	1.00	08/24/18
18H1230-03 [OU3-SED-1 Composite]	B211099	30.3	1.00	08/24/18
18H1230-04 [OU3-SED-2 Composite]	B211099	30.1	1.00	08/24/18
18H1230-05 [OU3-SED-3 Composite]	B211099	30.0	1.00	08/24/18



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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211193 - SW-846 5035

Blank (B211193-BLK1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.3	70-130			

LCS (B211193-BS1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.0	40-130			†
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		98.1	70-130			
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0539		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

LCS Dup (B211193-BS1)

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	1.72	25	
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	0.375	25	
Naphthalene	0.0183	0.0040	mg/Kg wet	0.0200		91.4	40-130	2.80	25	†
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	1.76	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.7	70-130	1.39	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	3.35	25	
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211099 - SW-846 3546

Blank (B211099-BLK1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.55		mg/Kg wet	3.33		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.59		mg/Kg wet	3.33		77.7	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/Kg wet	3.33		105	30-130			

LCS (B211099-BS1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.3	40-140			
Chrysene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Pyrene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140			
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.1	30-130			
Surrogate: p-Terphenyl-d14	3.43		mg/Kg wet	3.33		103	30-130			

LCS Dup (B211099-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	7.93	30	
Acenaphthylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	7.16	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	8.53	30	
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	7.91	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	9.59	30	
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	9.59	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	9.10	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	12.7	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	8.15	30	
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	8.20	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	8.32	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	4.54	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
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Batch B211099 - SW-846 3546

LCS Dup (B211099-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	3.29	30	
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	9.88	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	9.74	30	
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.33		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.45		mg/Kg wet	3.33		73.4	30-130			
Surrogate: p-Terphenyl-d14	3.13		mg/Kg wet	3.33		93.9	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211093 - SW-846 3546										
Blank (B211093-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
LCS (B211093-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.079	0.0040	mg/Kg wet	0.100		78.8	40-140			
4,4'-DDD [2C]	0.081	0.0040	mg/Kg wet	0.100		80.8	40-140			
Heptachlor Epoxide	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.6	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			
LCS Dup (B211093-BSD1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.084	0.0040	mg/Kg wet	0.100		84.1	40-140	6.49	30	
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		85.9	40-140	6.18	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140	5.95	30	
Heptachlor Epoxide [2C]	0.079	0.0050	mg/Kg wet	0.100		78.9	40-140	5.60	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			



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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 B211116 - SW-846 3050B										
Blank (B211116-BLK1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	0.64	0.67	mg/Kg wet							J
LCS (B211116-BS1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	110	1.5	mg/Kg wet	111		98.8	83-117.1			
Zinc	202	2.0	mg/Kg wet	199		102	81.4-119.1			
LCS Dup (B211116-BSD1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	109	1.5	mg/Kg wet	111		98.0	83-117.1	0.875	30	
Zinc	199	2.0	mg/Kg wet	199		99.9	81.4-119.1	1.67	30	
MRL Check (B211116-MRL1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	0.577	0.50	mg/Kg wet	0.502		115	80-120			

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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA



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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

August 29, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1231

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1231

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-18-1s	18H1231-01	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	
OU3-SED-18-2s	18H1231-02	Soil		SM 2540G SW-846 6010D SW-846 8081B SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-1s

Sample ID: 18H1231-01

Start Date/Time: 8/23/2018 5:48:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:53:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF
Isopropylbenzene (Cumene)	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF
Naphthalene	0.0017	0.0028	0.00049	mg/Kg dry	1	J	SW-846 8260C	8/28/18	8/28/18 7:24	MF
1,2,4-Trimethylbenzene	ND	0.0014	0.00056	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF
m+p Xylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF
o-Xylene	ND	0.0014	0.00049	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF
Xylenes (total)	ND	0.0042		mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:24	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-1s

Sample ID: 18H1231-01

Start Date/Time: 8/23/2018 5:48:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:53:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.060	0.19	0.058	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Anthracene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Benzo(a)pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Benzo(g,h,i)perylene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Benzo(k)fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Chrysene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Fluoranthene	0.12	0.19	0.064	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Fluorene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Naphthalene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Phenanthrene	0.18	0.19	0.10	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Pyrene	0.14	0.19	0.064	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 13:56	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	51.1		30-130				8/29/18 13:56			
2-Fluorobiphenyl	59.1		30-130				8/29/18 13:56			
p-Terphenyl-d14	70.3		30-130				8/29/18 13:56			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-1s

Sample ID: 18H1231-01

Start Date/Time: 8/23/2018 5:48:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:53:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 4:26	JMB
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 4:26	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	75.0		30-150				8/29/18 4:26		
Decachlorobiphenyl [2]	69.9		30-150				8/29/18 4:26		
Tetrachloro-m-xylene [1]	72.5		30-150				8/29/18 4:26		
Tetrachloro-m-xylene [2]	62.7		30-150				8/29/18 4:26		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-1s

Sample ID: 18H1231-01

Start Date/Time: 8/23/2018 5:48:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:53:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.59	0.57	0.34	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 13:30	MJH
Zinc	23	0.77	0.53	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 13:30	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-1s

Sample ID: 18H1231-01

Start Date/Time: 8/23/2018 5:48:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 5:53:00PM

Conventional 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	8/26/18	8/27/18 8:38	KMG

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-2s

Sample ID: 18H1231-02

Start Date/Time: 8/23/2018 5:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 6:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF
Isopropylbenzene (Cumene)	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF
Naphthalene	0.018	0.0036	0.00062	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF
1,2,4-Trimethylbenzene	0.0012	0.0018	0.00071	mg/Kg dry	1	J	SW-846 8260C	8/28/18	8/28/18 7:51	MF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF
o-Xylene	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF
Xylenes (total)	ND	0.0053		mg/Kg dry	1		SW-846 8260C	8/28/18	8/28/18 7:51	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	98.3	70-130	

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-2s

Sample ID: 18H1231-02

Start Date/Time: 8/23/2018 5:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 6:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.43	0.24	0.073	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Acenaphthylene	ND	0.24	0.081	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Anthracene	0.27	0.24	0.070	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Benzo(a)anthracene	0.14	0.24	0.064	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Benzo(a)pyrene	0.13	0.24	0.076	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Benzo(b)fluoranthene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Benzo(g,h,i)perylene	ND	0.24	0.11	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Benzo(k)fluoranthene	ND	0.24	0.076	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Chrysene	0.12	0.24	0.076	mg/Kg dry	1	J	SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Fluoranthene	0.35	0.24	0.080	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Fluorene	0.27	0.24	0.079	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Naphthalene	0.42	0.24	0.12	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Phenanthrene	0.94	0.24	0.13	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Pyrene	0.52	0.24	0.080	mg/Kg dry	1		SW-846 8270D	8/26/18	8/29/18 14:27	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	65.8		30-130				8/29/18 14:27			
2-Fluorobiphenyl	68.5		30-130				8/29/18 14:27			
p-Terphenyl-d14	75.1		30-130				8/29/18 14:27			

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-2s

Sample ID: 18H1231-02

Start Date/Time: 8/23/2018 5:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 6:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 4:53	JMB
Heptachlor epoxide [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	8/26/18	8/29/18 4:53	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	77.4		30-150				8/29/18 4:53		
Decachlorobiphenyl [2]	70.0		30-150				8/29/18 4:53		
Tetrachloro-m-xylene [1]	74.5		30-150				8/29/18 4:53		
Tetrachloro-m-xylene [2]	67.8		30-150				8/29/18 4:53		

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-2s

Sample ID: 18H1231-02

Start Date/Time: 8/23/2018 5:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 6:00:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.6	0.72	0.43	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 13:36	MJH
Zinc	23	0.96	0.66	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 13:36	MJH

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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1231

Date Received: 8/24/2018

Field Sample #: OU3-SED-18-2s

Sample ID: 18H1231-02

Start Date/Time: 8/23/2018 5:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 6:00:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.5		% Wt	1		SM 2540G	8/26/18	8/27/18 8:38	KMG

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1231-01 [OU3-SED-18-1s]	B211157	08/26/18
18H1231-02 [OU3-SED-18-2s]	B211157	08/26/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1231-01 [OU3-SED-18-1s]	B211295	1.51	50.0	08/28/18
18H1231-02 [OU3-SED-18-2s]	B211295	1.49	50.0	08/28/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1231-01 [OU3-SED-18-1s]	B211151	10.3	10.0	08/26/18
18H1231-02 [OU3-SED-18-2s]	B211151	10.4	10.0	08/26/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1231-01 [OU3-SED-18-1s]	B211273	8.24	10.0	08/28/18
18H1231-02 [OU3-SED-18-2s]	B211273	8.10	10.0	08/28/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1231-01 [OU3-SED-18-1s]	B211152	30.4	1.00	08/26/18
18H1231-02 [OU3-SED-18-2s]	B211152	30.2	1.00	08/26/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211273 - SW-846 5035										
Blank (B211273-BLK1)										
Prepared & Analyzed: 08/28/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.5	70-130			
LCS (B211273-BS1)										
Prepared & Analyzed: 08/28/18										
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Isopropylbenzene (Cumene)	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
Naphthalene	0.0214	0.0040	mg/Kg wet	0.0200		107	40-130			†
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
m+p Xylene	0.0435	0.0040	mg/Kg wet	0.0400		109	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211273-BSD1)										
Prepared & Analyzed: 08/28/18										
Ethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.42	25	
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	10.9	25	
Naphthalene	0.0199	0.0040	mg/Kg wet	0.0200		99.4	40-130	7.46	25	†
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	5.38	25	
m+p Xylene	0.0402	0.0040	mg/Kg wet	0.0400		100	70-130	7.89	25	
o-Xylene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	6.42	25	
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0507		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211152 - SW-846 3546										
Blank (B211152-BLK1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.10		mg/Kg wet	3.33		62.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.11		mg/Kg wet	3.33		63.4	30-130			
Surrogate: p-Terphenyl-d14	2.95		mg/Kg wet	3.33		88.5	30-130			
LCS (B211152-BS1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140			
Acenaphthylene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140			
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140			
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Benzo(g,h,i)perylene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Benzo(k)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Fluorene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Naphthalene	0.977	0.17	mg/Kg wet	1.67		58.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.33		66.0	30-130			
Surrogate: p-Terphenyl-d14	2.76		mg/Kg wet	3.33		82.7	30-130			
LCS Dup (B211152-BS1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
Acenaphthene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140	4.77	30	
Acenaphthylene	0.933	0.17	mg/Kg wet	1.67		56.0	40-140	1.59	30	
Anthracene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	2.09	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	0.487	30	
Benzo(a)pyrene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	0.441	30	
Benzo(b)fluoranthene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	1.70	30	
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	0.916	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	0.806	30	
Chrysene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	1.92	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	0.154	30	
Fluorene	0.924	0.17	mg/Kg wet	1.67		55.4	40-140	2.04	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140	0.531	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
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Batch B211152 - SW-846 3546

LCS Dup (B211152-BSD1)

Prepared: 08/26/18 Analyzed: 08/28/18

Naphthalene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140	7.91	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	1.04	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	2.56	30	
Surrogate: Nitrobenzene-d5	1.94		mg/Kg wet	3.33		58.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg wet	3.33		61.9	30-130			
Surrogate: p-Terphenyl-d14	2.64		mg/Kg wet	3.33		79.1	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211151 - SW-846 3546										
Blank (B211151-BLK1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.143		mg/Kg wet	0.200		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.139		mg/Kg wet	0.200		69.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.135		mg/Kg wet	0.200		67.3	30-150			
LCS (B211151-BS1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140			
4,4'-DDD [2C]	0.080	0.0040	mg/Kg wet	0.100		79.5	40-140			
Heptachlor Epoxide	0.077	0.0050	mg/Kg wet	0.100		77.1	40-140			
Heptachlor Epoxide [2C]	0.076	0.0050	mg/Kg wet	0.100		76.3	40-140			
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.8	30-150			
LCS Dup (B211151-BSD1)										
Prepared: 08/26/18 Analyzed: 08/28/18										
4,4'-DDD	0.086	0.0040	mg/Kg wet	0.100		86.4	40-140	8.43	30	
4,4'-DDD [2C]	0.088	0.0040	mg/Kg wet	0.100		88.1	40-140	10.2	30	
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140	6.62	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.2	40-140	7.48	30	
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			

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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 B211295 - SW-846 3050B										
Blank (B211295-BLK1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	ND	0.49	mg/Kg wet							
Zinc	0.59	0.66	mg/Kg wet							J
LCS (B211295-BS1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	98.4	1.5	mg/Kg wet	111		88.6	83-117.1			
Zinc	178	2.0	mg/Kg wet	199		89.2	81.4-119.1			
LCS Dup (B211295-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	98.4	1.5	mg/Kg wet	111		88.6	83-117.1	0.0326	30	
Zinc	177	2.0	mg/Kg wet	199		89.2	81.4-119.1	0.0626	30	
MRL Check (B211295-MRL1)										
					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	0.419	0.48	mg/Kg wet	0.485		86.4	80-120			J

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM1 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 6.11
Endrin [1] 3.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.21
Endrin [2] 3.80

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM2 **Analyzed:** 08/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.83
Endrin [1] 3.38

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.95
Endrin [2] 3.44

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 **Analyzed:** 08/29/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.92
Endrin [1] 3.36

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BREAKDOWN REPORT

Lab Sample ID: S026736-PEM3 Analyzed: 08/29/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.14
Endrin [2]	3.83

BREAKDOWN REPORT

Lab Sample ID: S026736-PEM4 Analyzed: 08/29/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.06
Endrin [1]	3.43

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.21
Endrin [2]	3.41

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211151-BS1 Date(s) Analyzed: 08/28/2018 08/28/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.322	7.292	7.352	0.079	
	2	7.410	7.380	7.440	0.080	1.3
Heptachlor Epoxide	1	6.641	6.610	6.670	0.077	
	2	6.605	6.575	6.635	0.076	1.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B211151-BSD1 Date(s) Analyzed: 08/28/2018 08/28/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.321	7.292	7.352	0.086	
	2	7.410	7.380	7.440	0.088	2.3
Heptachlor Epoxide	1	6.640	6.610	6.670	0.082	
	2	6.606	6.575	6.635	0.082	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1841231

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: LAND Remediation
 Address: 74 Hudson River Road Waterford, New York 12188
 Phone: 518-766-4105
 Project Name: NYSDEC Saranac Lake Gas Co.
 Project Location: Saranac Lake OU_3
 Project Number:
 Project Manager: Matthew Warren
 Con-Test Quote Name/Number:
 Invoice Recipient: miw@land-remediation.com
 Sampled By: Kyle Jones

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: CAT B - Equis
 CLP Like Data Pkg Required:
 Email To: miw@land-remediation.com
 Fax To #: JKL@land-remediation.com

Doc # 380 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

Page ___ of ___

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Analysis Requested	Matrix Codes	Preservation Codes	Container Codes	# of Containers
1	OU3-SED-18-1s	8/23/2018 17:46	8/23/2018 17:53	X	X	S	L	VOC 8270 Metals 6010 Pesticides	GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	1 = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)	1 2 3	
2	OU3-SED-18-2s	8/23/2018 17:55	8/23/2018 18:00	X	X	S	L					

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

Only report analytes shown on Table 4-3 (Attached for reference).
 Relinquished by: (signature) [Signature] Date/Time: 8/24/18 9:00
 Received by: (signature) [Signature] Date/Time: 8-24-18 9:00A
 Relinquished by: (signature) [Signature] Date/Time: 8-24-18 1330
 Received by: (signature) [Signature] Date/Time: 8/24/18 1330
 Relinquished by: (signature) [Signature] Date/Time: 8/10/18
 Received by: (signature) [Signature] Date/Time: 8-24-18 14:35

Program & Regulatory Information

AWQ STDS NY TOGS
 NYC Sewer Discharge NY CP-51
 Part 360 GW (Landfill)
 NY Restricted Use
 NY Unrestricted Use
 NY Part 375

Deliverables

Enhanced Data Package
 NYSDEC EQuIS EDD
 EQuIS (Standard) EDD
 NY Regulatory EDD
 NY Regs Hts-Only EDD

Project Entity

Government Municipality WRTA
 Federal 21 J School
 City Brownfield MBTA

Other:
 MWRA Chromatogram
 WRTA AIHA-LAP, LLC
 School
 MBTA

PCB ONLY
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Lane Remediation

Received By E40 Date 8-24-18 Time 14:35

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 # 575 Actual Temp - 5.2
 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? Mike, Eric
 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? + Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	2	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	4	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:

August 27, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1232

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1232

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-4 Composite	18H1232-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-4 Composite Duplicate	18H1232-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-2 Composite	18H1232-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
OU3-SED-2 Composite Duplicate	18H1232-04	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8081B

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]

B211097-MS1, B211097-MSD1

SW-846 8270D

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Acenaphthylene

B211094-MSD1

Naphthalene

B211094-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Indeno(1,2,3-cd)pyrene

18H1232-04[OU3-SED-2 Composite Duplicate], B211094-MS1, B211094-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite

Sample ID: 18H1232-01

Start Date/Time: 8/23/2018 12:51:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:00:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
Naphthalene	ND	0.0027	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 10:37	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	103	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite

Sample ID: 18H1232-01

Start Date/Time: 8/23/2018 12:51:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:00:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:23	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		50.8	30-130						8/25/18 19:23	
2-Fluorobiphenyl		57.4	30-130						8/25/18 19:23	
p-Terphenyl-d14		80.5	30-130						8/25/18 19:23	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite

Sample ID: 18H1232-01

Start Date/Time: 8/23/2018 12:51:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:00:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 1:47	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 1:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.2	30-150					8/26/18 1:47	
Decachlorobiphenyl [2]		69.2	30-150					8/26/18 1:47	
Tetrachloro-m-xylene [1]		65.2	30-150					8/26/18 1:47	
Tetrachloro-m-xylene [2]		61.4	30-150					8/26/18 1:47	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite

Sample ID: 18H1232-01

Start Date/Time: 8/23/2018 12:51:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:00:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.1	0.59	0.35	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:24	QNW
Zinc	15	0.78	0.54	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:24	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite

Sample ID: 18H1232-01

Start Date/Time: 8/23/2018 12:51:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:00:00PM

Conventional 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	8/24/18	8/25/18 10:37	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite Duplicate

Sample ID: 18H1232-02

Start Date/Time: 8/23/2018 1:09:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
Isopropylbenzene (Cumene)	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
Naphthalene	ND	0.0027	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
1,2,4-Trimethylbenzene	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
m+p Xylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
o-Xylene	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF
Xylenes (total)	ND	0.0040		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:04	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	100	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite Duplicate

Sample ID: 18H1232-02

Start Date/Time: 8/23/2018 1:09:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 18:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
Nitrobenzene-d5	57.4	30-130	
2-Fluorobiphenyl	65.6	30-130	
p-Terphenyl-d14	87.6	30-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite Duplicate

Sample ID: 18H1232-02

Start Date/Time: 8/23/2018 1:09:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:19:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 3:34	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 3:34	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.9	30-150					8/26/18 3:34	
Decachlorobiphenyl [2]		88.9	30-150					8/26/18 3:34	
Tetrachloro-m-xylene [1]		89.2	30-150					8/26/18 3:34	
Tetrachloro-m-xylene [2]		84.8	30-150					8/26/18 3:34	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite Duplicate

Sample ID: 18H1232-02

Start Date/Time: 8/23/2018 1:09:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:19:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.1	0.58	0.34	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:19	QNW
Zinc	16	0.78	0.54	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:19	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-4 Composite Duplicate

Sample ID: 18H1232-02

Start Date/Time: 8/23/2018 1:09:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:19:00PM

Conventional 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	8/24/18	8/25/18 10:37	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1232-03

Start Date/Time: 8/23/2018 1:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:53:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF
Naphthalene	ND	0.0030	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF
1,2,4-Trimethylbenzene	0.0012	0.0015	0.00060	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/27/18 11:32	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF
o-Xylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:32	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1232-03

Start Date/Time: 8/23/2018 1:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:53:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Acenaphthylene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 19:49	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		41.0	30-130						8/25/18 19:49	
2-Fluorobiphenyl		49.0	30-130						8/25/18 19:49	
p-Terphenyl-d14		65.9	30-130						8/25/18 19:49	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1232-03

Start Date/Time: 8/23/2018 1:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:53:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 2:13	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 2:13	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.1	30-150					8/26/18 2:13	
Decachlorobiphenyl [2]		63.6	30-150					8/26/18 2:13	
Tetrachloro-m-xylene [1]		63.3	30-150					8/26/18 2:13	
Tetrachloro-m-xylene [2]		57.9	30-150					8/26/18 2:13	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1232-03

Start Date/Time: 8/23/2018 1:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:53:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	6.7	0.60	0.35	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:29	QNW
Zinc	16	0.80	0.55	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:29	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite

Sample ID: 18H1232-03

Start Date/Time: 8/23/2018 1:45:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 1:53:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	8/24/18	8/25/18 10:38	MAT



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite Duplicate

Sample ID: 18H1232-04

Start Date/Time: 8/23/2018 1:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 2:02:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF
Isopropylbenzene (Cumene)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF
Naphthalene	ND	0.0030	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF
1,2,4-Trimethylbenzene	0.00094	0.0015	0.00060	mg/Kg dry	1	J	SW-846 8260C	8/27/18	8/27/18 11:59	MF
m+p Xylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF
o-Xylene	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF
Xylenes (total)	ND	0.0045		mg/Kg dry	1		SW-846 8260C	8/27/18	8/27/18 11:59	MF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	99.3	70-130	
4-Bromofluorobenzene	104	70-130	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite Duplicate

Sample ID: 18H1232-04

Start Date/Time: 8/23/2018 1:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 2:02:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1	R-06	SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	8/24/18	8/25/18 20:14	BGL
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		44.5	30-130						8/25/18 20:14	
2-Fluorobiphenyl		52.9	30-130						8/25/18 20:14	
p-Terphenyl-d14		73.7	30-130						8/25/18 20:14	



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite Duplicate

Sample ID: 18H1232-04

Start Date/Time: 8/23/2018 1:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 2:02:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 2:40	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	8/24/18	8/26/18 2:40	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		55.8	30-150					8/26/18 2:40	
Decachlorobiphenyl [2]		53.3	30-150					8/26/18 2:40	
Tetrachloro-m-xylene [1]		54.0	30-150					8/26/18 2:40	
Tetrachloro-m-xylene [2]		50.4	30-150					8/26/18 2:40	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite Duplicate

Sample ID: 18H1232-04

Start Date/Time: 8/23/2018 1:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 2:02:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	7.2	0.62	0.36	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:04	QNW
Zinc	19	0.82	0.56	mg/Kg dry	1		SW-846 6010D	8/25/18	8/27/18 15:04	QNW



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Project Location: Saranac Lake

Sample Description:

Work Order: 18H1232

Date Received: 8/24/2018

Field Sample #: OU3-SED-2 Composite Duplicate

Sample ID: 18H1232-04

Start Date/Time: 8/23/2018 1:57:00PM

Sample Matrix: Soil

Stop Date/Time: 8/23/2018 2:02:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	8/24/18	8/25/18 10:38	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1232-01 [OU3-SED-4 Composite]	B211106	08/24/18
18H1232-02 [OU3-SED-4 Composite Duplicate]	B211106	08/24/18
18H1232-03 [OU3-SED-2 Composite]	B211106	08/24/18
18H1232-04 [OU3-SED-2 Composite Duplicate]	B211106	08/24/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-01 [OU3-SED-4 Composite]	B211116	1.50	50.0	08/25/18
18H1232-02 [OU3-SED-4 Composite Duplicate]	B211116	1.50	50.0	08/25/18
18H1232-03 [OU3-SED-2 Composite]	B211116	1.54	50.0	08/25/18
18H1232-04 [OU3-SED-2 Composite Duplicate]	B211116	1.51	50.0	08/25/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-01 [OU3-SED-4 Composite]	B211093	10.0	10.0	08/24/18
18H1232-03 [OU3-SED-2 Composite]	B211093	10.4	10.0	08/24/18
18H1232-04 [OU3-SED-2 Composite Duplicate]	B211093	10.7	10.0	08/24/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-02 [OU3-SED-4 Composite Duplicate]	B211097	10.6	10.0	08/24/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-01 [OU3-SED-4 Composite]	B211193	8.84	10.0	08/27/18
18H1232-02 [OU3-SED-4 Composite Duplicate]	B211193	8.77	10.0	08/27/18
18H1232-03 [OU3-SED-2 Composite]	B211193	8.17	10.0	08/27/18
18H1232-04 [OU3-SED-2 Composite Duplicate]	B211193	8.27	10.0	08/27/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-01 [OU3-SED-4 Composite]	B211094	30.1	1.00	08/24/18
18H1232-03 [OU3-SED-2 Composite]	B211094	30.6	1.00	08/24/18
18H1232-04 [OU3-SED-2 Composite Duplicate]	B211094	30.5	1.00	08/24/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1232-02 [OU3-SED-4 Composite Duplicate]	B211099	30.0	1.00	08/24/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211193 - SW-846 5035										
Blank (B211193-BLK1)										
Prepared & Analyzed: 08/27/18										
Ethylbenzene	ND	0.0020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.3	70-130			
LCS (B211193-BS1)										
Prepared & Analyzed: 08/27/18										
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.0	40-130			†
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		98.1	70-130			
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0539		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B211193-BSD1)										
Prepared & Analyzed: 08/27/18										
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	1.72	25	
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	0.375	25	
Naphthalene	0.0183	0.0040	mg/Kg wet	0.0200		91.4	40-130	2.80	25	†
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	1.76	25	
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.7	70-130	1.39	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	3.35	25	
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
Matrix Spike (B211193-MS1)										
Source: 18H1232-02 Prepared & Analyzed: 08/27/18										
Ethylbenzene	0.0124	0.0013	mg/Kg dry	0.0134	ND	92.4	70-130			
Isopropylbenzene (Cumene)	0.0134	0.0013	mg/Kg dry	0.0134	ND	100	70-130			
Naphthalene	0.0107	0.0027	mg/Kg dry	0.0134	ND	80.4	70-130			
1,2,4-Trimethylbenzene	0.0118	0.0013	mg/Kg dry	0.0134	ND	88.6	70-130			
m+p Xylene	0.0246	0.0027	mg/Kg dry	0.0267	ND	91.9	70-130			
o-Xylene	0.0119	0.0013	mg/Kg dry	0.0134	ND	89.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0348		mg/Kg dry	0.0334		104	70-130			
Surrogate: Toluene-d8	0.0333		mg/Kg dry	0.0334		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0335		mg/Kg dry	0.0334		100	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211193 - SW-846 5035

Matrix Spike (B211193-MS2)

Source: 18H1232-04

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0140	0.0015	mg/Kg dry	0.0150	ND	93.4	70-130			
Isopropylbenzene (Cumene)	0.0144	0.0015	mg/Kg dry	0.0150	ND	96.1	70-130			
Naphthalene	0.0135	0.0030	mg/Kg dry	0.0150	ND	90.5	70-130			
1,2,4-Trimethylbenzene	0.0141	0.0015	mg/Kg dry	0.0150	0.000943	88.0	70-130			
m+p Xylene	0.0275	0.0030	mg/Kg dry	0.0299	ND	91.9	70-130			
o-Xylene	0.0131	0.0015	mg/Kg dry	0.0150	ND	87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0384		mg/Kg dry	0.0374		102	70-130			
Surrogate: Toluene-d8	0.0380		mg/Kg dry	0.0374		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0385		mg/Kg dry	0.0374		103	70-130			

Matrix Spike Dup (B211193-MSD1)

Source: 18H1232-02

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0132	0.0014	mg/Kg dry	0.0137	ND	96.3	70-130	6.56	30	
Isopropylbenzene (Cumene)	0.0142	0.0014	mg/Kg dry	0.0137	ND	103	70-130	5.27	30	
Naphthalene	0.0118	0.0027	mg/Kg dry	0.0137	ND	86.4	70-130	9.61	30	
1,2,4-Trimethylbenzene	0.0127	0.0014	mg/Kg dry	0.0137	ND	92.4	70-130	6.62	30	
m+p Xylene	0.0257	0.0027	mg/Kg dry	0.0274	ND	93.8	70-130	4.52	30	
o-Xylene	0.0127	0.0014	mg/Kg dry	0.0137	ND	93.1	70-130	6.59	30	
Surrogate: 1,2-Dichloroethane-d4	0.0364		mg/Kg dry	0.0342		106	70-130			
Surrogate: Toluene-d8	0.0337		mg/Kg dry	0.0342		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0351		mg/Kg dry	0.0342		102	70-130			

Matrix Spike Dup (B211193-MSD2)

Source: 18H1232-04

Prepared & Analyzed: 08/27/18

Ethylbenzene	0.0131	0.0014	mg/Kg dry	0.0138	ND	94.9	70-130	6.53	30	
Isopropylbenzene (Cumene)	0.0145	0.0014	mg/Kg dry	0.0138	ND	105	70-130	0.922	30	
Naphthalene	0.0134	0.0028	mg/Kg dry	0.0138	ND	97.0	70-130	1.19	30	
1,2,4-Trimethylbenzene	0.0130	0.0014	mg/Kg dry	0.0138	0.000943	87.6	70-130	8.01	30	
m+p Xylene	0.0257	0.0028	mg/Kg dry	0.0276	ND	93.0	70-130	6.88	30	
o-Xylene	0.0122	0.0014	mg/Kg dry	0.0138	ND	88.5	70-130	6.99	30	
Surrogate: 1,2-Dichloroethane-d4	0.0366		mg/Kg dry	0.0345		106	70-130			
Surrogate: Toluene-d8	0.0350		mg/Kg dry	0.0345		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0363		mg/Kg dry	0.0345		105	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211094 - SW-846 3546

Blank (B211094-BLK1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.68		mg/Kg wet	3.33		80.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.1	30-130			
Surrogate: p-Terphenyl-d14	3.57		mg/Kg wet	3.33		107	30-130			

LCS (B211094-BS1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
Acenaphthylene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Benzo(g,h,i)perylene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140			
Fluorene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Surrogate: Nitrobenzene-d5	2.28		mg/Kg wet	3.33		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.1	30-130			

LCS Dup (B211094-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	0.904	0.17	mg/Kg wet	1.67		54.2	40-140	8.51	30	
Acenaphthylene	0.892	0.17	mg/Kg wet	1.67		53.5	40-140	11.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	7.77	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	6.77	30	
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	4.56	30	
Benzo(b)fluoranthene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140	7.31	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	5.54	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	2.41	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	7.61	30	
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	5.49	30	
Fluorene	0.913	0.17	mg/Kg wet	1.67		54.8	40-140	7.45	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.97	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 B211094 - SW-846 3546										
LCS Dup (B211094-BSD1)										
					Prepared: 08/24/18 Analyzed: 08/25/18					
Naphthalene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140	15.4	30	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	6.90	30	
Pyrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.2	30	
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.33		63.5	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		81.0	30-130			
Matrix Spike (B211094-MS1)										
			Source: 18H1232-04		Prepared: 08/24/18 Analyzed: 08/25/18					
Acenaphthene	1.09	0.21	mg/Kg dry	2.06	ND	52.8	40-140			
Acenaphthylene	1.06	0.21	mg/Kg dry	2.06	ND	51.7	40-140			
Anthracene	1.21	0.21	mg/Kg dry	2.06	ND	58.9	40-140			
Benzo(a)anthracene	1.26	0.21	mg/Kg dry	2.06	ND	61.3	40-140			
Benzo(a)pyrene	1.21	0.21	mg/Kg dry	2.06	ND	58.7	40-140			
Benzo(b)fluoranthene	1.06	0.21	mg/Kg dry	2.06	ND	51.3	40-140			
Benzo(g,h,i)perylene	1.20	0.21	mg/Kg dry	2.06	ND	58.2	40-140			
Benzo(k)fluoranthene	1.16	0.21	mg/Kg dry	2.06	ND	56.4	40-140			
Chrysene	1.24	0.21	mg/Kg dry	2.06	ND	60.2	40-140			
Fluoranthene	1.22	0.21	mg/Kg dry	2.06	ND	59.5	40-140			
Fluorene	1.07	0.21	mg/Kg dry	2.06	ND	52.3	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.21	mg/Kg dry	2.06	ND	61.3	40-140			R-06
Naphthalene	1.01	0.21	mg/Kg dry	2.06	ND	49.0	40-140			
Phenanthrene	1.24	0.21	mg/Kg dry	2.06	ND	60.4	40-140			
Pyrene	1.26	0.21	mg/Kg dry	2.06	ND	61.3	40-140			
Surrogate: Nitrobenzene-d5	2.09		mg/Kg dry	4.11		50.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg dry	4.11		59.4	30-130			
Surrogate: p-Terphenyl-d14	3.05		mg/Kg dry	4.11		74.2	30-130			
Matrix Spike Dup (B211094-MSD1)										
			Source: 18H1232-04		Prepared: 08/24/18 Analyzed: 08/25/18					
Acenaphthene	0.830	0.21	mg/Kg dry	2.02	ND	41.0	40-140	26.6	30	
Acenaphthylene	0.808	0.21	mg/Kg dry	2.02	ND	39.9 *	40-140	27.4	30	MS-22
Anthracene	0.920	0.21	mg/Kg dry	2.02	ND	45.5	40-140	27.4	30	
Benzo(a)anthracene	0.972	0.21	mg/Kg dry	2.02	ND	48.0	40-140	25.9	30	
Benzo(a)pyrene	0.941	0.21	mg/Kg dry	2.02	ND	46.5	40-140	24.8	30	
Benzo(b)fluoranthene	0.810	0.21	mg/Kg dry	2.02	ND	40.1	40-140	26.3	30	
Benzo(g,h,i)perylene	0.911	0.21	mg/Kg dry	2.02	ND	45.0	40-140	27.2	30	
Benzo(k)fluoranthene	0.889	0.21	mg/Kg dry	2.02	ND	43.9	40-140	26.5	30	
Chrysene	0.946	0.21	mg/Kg dry	2.02	ND	46.8	40-140	26.7	30	
Fluoranthene	0.923	0.21	mg/Kg dry	2.02	ND	45.6	40-140	28.0	30	
Fluorene	0.827	0.21	mg/Kg dry	2.02	ND	40.9	40-140	26.1	30	
Indeno(1,2,3-cd)pyrene	0.907	0.21	mg/Kg dry	2.02	ND	44.8	40-140	32.7 *	30	R-06
Naphthalene	0.787	0.21	mg/Kg dry	2.02	ND	38.9 *	40-140	24.5	30	MS-22
Phenanthrene	0.952	0.21	mg/Kg dry	2.02	ND	47.1	40-140	26.4	30	
Pyrene	0.969	0.21	mg/Kg dry	2.02	ND	47.9	40-140	26.1	30	
Surrogate: Nitrobenzene-d5	1.69		mg/Kg dry	4.05		41.7	30-130			
Surrogate: 2-Fluorobiphenyl	1.89		mg/Kg dry	4.05		46.6	30-130			
Surrogate: p-Terphenyl-d14	2.31		mg/Kg dry	4.05		57.0	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211099 - SW-846 3546

Blank (B211099-BLK1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.55		mg/Kg wet	3.33		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.59		mg/Kg wet	3.33		77.7	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/Kg wet	3.33		105	30-130			

LCS (B211099-BS1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.3	40-140			
Chrysene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Pyrene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140			
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.1	30-130			
Surrogate: p-Terphenyl-d14	3.43		mg/Kg wet	3.33		103	30-130			

LCS Dup (B211099-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	7.93	30	
Acenaphthylene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	7.16	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	8.53	30	
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	7.91	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	9.59	30	
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	9.59	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	9.10	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	12.7	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	8.15	30	
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	8.20	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	8.32	30	
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	4.54	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211099 - SW-846 3546

LCS Dup (B211099-BSD1)

Prepared: 08/24/18 Analyzed: 08/25/18

Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	3.29	30	
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	9.88	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	9.74	30	
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.33		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.45		mg/Kg wet	3.33		73.4	30-130			
Surrogate: p-Terphenyl-d14	3.13		mg/Kg wet	3.33		93.9	30-130			

Matrix Spike (B211099-MS1)

Source: 18H1232-02

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.07	0.20	mg/Kg dry	1.93	ND	55.5	40-140			
Acenaphthylene	1.08	0.20	mg/Kg dry	1.93	ND	55.8	40-140			
Anthracene	1.28	0.20	mg/Kg dry	1.93	ND	66.1	40-140			
Benzo(a)anthracene	1.32	0.20	mg/Kg dry	1.93	ND	68.3	40-140			
Benzo(a)pyrene	1.30	0.20	mg/Kg dry	1.93	ND	67.4	40-140			
Benzo(b)fluoranthene	1.16	0.20	mg/Kg dry	1.93	ND	59.7	40-140			
Benzo(g,h,i)perylene	1.32	0.20	mg/Kg dry	1.93	ND	68.3	40-140			
Benzo(k)fluoranthene	1.25	0.20	mg/Kg dry	1.93	ND	64.6	40-140			
Chrysene	1.27	0.20	mg/Kg dry	1.93	ND	65.6	40-140			
Fluoranthene	1.27	0.20	mg/Kg dry	1.93	ND	65.8	40-140			
Fluorene	1.09	0.20	mg/Kg dry	1.93	ND	56.5	40-140			
Indeno(1,2,3-cd)pyrene	1.43	0.20	mg/Kg dry	1.93	ND	73.8	40-140			
Naphthalene	1.04	0.20	mg/Kg dry	1.93	ND	54.0	40-140			
Phenanthrene	1.32	0.20	mg/Kg dry	1.93	ND	68.1	40-140			
Pyrene	1.31	0.20	mg/Kg dry	1.93	ND	67.6	40-140			
Surrogate: Nitrobenzene-d5	2.23		mg/Kg dry	3.87		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg dry	3.87		63.6	30-130			
Surrogate: p-Terphenyl-d14	3.29		mg/Kg dry	3.87		85.1	30-130			

Matrix Spike Dup (B211099-MSD1)

Source: 18H1232-02

Prepared: 08/24/18 Analyzed: 08/25/18

Acenaphthene	1.15	0.20	mg/Kg dry	1.95	ND	59.0	40-140	6.78	30	
Acenaphthylene	1.14	0.20	mg/Kg dry	1.95	ND	58.3	40-140	5.04	30	
Anthracene	1.27	0.20	mg/Kg dry	1.95	ND	65.1	40-140	0.802	30	
Benzo(a)anthracene	1.33	0.20	mg/Kg dry	1.95	ND	68.4	40-140	0.926	30	
Benzo(a)pyrene	1.31	0.20	mg/Kg dry	1.95	ND	67.2	40-140	0.425	30	
Benzo(b)fluoranthene	1.13	0.20	mg/Kg dry	1.95	ND	58.1	40-140	2.09	30	
Benzo(g,h,i)perylene	1.30	0.20	mg/Kg dry	1.95	ND	66.8	40-140	1.53	30	
Benzo(k)fluoranthene	1.26	0.20	mg/Kg dry	1.95	ND	64.6	40-140	0.569	30	
Chrysene	1.28	0.20	mg/Kg dry	1.95	ND	65.8	40-140	0.997	30	
Fluoranthene	1.26	0.20	mg/Kg dry	1.95	ND	64.7	40-140	1.02	30	
Fluorene	1.12	0.20	mg/Kg dry	1.95	ND	57.7	40-140	2.80	30	
Indeno(1,2,3-cd)pyrene	1.45	0.20	mg/Kg dry	1.95	ND	74.6	40-140	1.77	30	
Naphthalene	1.21	0.20	mg/Kg dry	1.95	ND	62.0	40-140	14.5	30	
Phenanthrene	1.30	0.20	mg/Kg dry	1.95	ND	66.8	40-140	1.38	30	
Pyrene	1.32	0.20	mg/Kg dry	1.95	ND	68.0	40-140	1.34	30	
Surrogate: Nitrobenzene-d5	2.61		mg/Kg dry	3.89		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg dry	3.89		67.6	30-130			
Surrogate: p-Terphenyl-d14	3.23		mg/Kg dry	3.89		83.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211093 - SW-846 3546										
Blank (B211093-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
LCS (B211093-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.079	0.0040	mg/Kg wet	0.100		78.8	40-140			
4,4'-DDD [2C]	0.081	0.0040	mg/Kg wet	0.100		80.8	40-140			
Heptachlor Epoxide	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		74.6	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			
LCS Dup (B211093-BSD1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.084	0.0040	mg/Kg wet	0.100		84.1	40-140	6.49	30	
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		85.9	40-140	6.18	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140	5.95	30	
Heptachlor Epoxide [2C]	0.079	0.0050	mg/Kg wet	0.100		78.9	40-140	5.60	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			
Matrix Spike (B211093-MS1)										
Source: 18H1232-04 Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.094	0.0049	mg/Kg dry	0.121	ND	77.7	30-150			
4,4'-DDD [2C]	0.096	0.0049	mg/Kg dry	0.121	ND	79.5	30-150			
Heptachlor Epoxide	0.093	0.0061	mg/Kg dry	0.121	ND	76.9	30-150			
Heptachlor Epoxide [2C]	0.092	0.0061	mg/Kg dry	0.121	ND	75.7	30-150			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg dry	0.243		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg dry	0.243		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg dry	0.243		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg dry	0.243		76.6	30-150			
Matrix Spike Dup (B211093-MSD1)										
Source: 18H1232-04 Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.075	0.0049	mg/Kg dry	0.121	ND	61.5	30-150	23.3	30	
4,4'-DDD [2C]	0.076	0.0049	mg/Kg dry	0.121	ND	62.7	30-150	23.6	30	
Heptachlor Epoxide	0.073	0.0061	mg/Kg dry	0.121	ND	60.3	30-150	24.2	30	
Heptachlor Epoxide [2C]	0.072	0.0061	mg/Kg dry	0.121	ND	59.7	30-150	23.6	30	
Surrogate: Decachlorobiphenyl	0.163		mg/Kg dry	0.243		67.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg dry	0.243		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg dry	0.243		64.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg dry	0.243		60.4	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211097 - SW-846 3546										
Blank (B211097-BLK1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
LCS (B211097-BS1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.093	0.0040	mg/Kg wet	0.100		93.3	40-140			
4,4'-DDD [2C]	0.096	0.0040	mg/Kg wet	0.100		95.6	40-140			
Heptachlor Epoxide	0.088	0.0050	mg/Kg wet	0.100		87.7	40-140			
Heptachlor Epoxide [2C]	0.087	0.0050	mg/Kg wet	0.100		87.2	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
LCS Dup (B211097-BSD1)										
Prepared: 08/24/18 Analyzed: 08/25/18										
4,4'-DDD	0.087	0.0040	mg/Kg wet	0.100		86.7	40-140	7.38	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140	6.79	30	
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	5.13	30	
Heptachlor Epoxide [2C]	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140	5.06	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.5	30-150			
Matrix Spike (B211097-MS1)										
Source: 18H1232-02 Prepared: 08/24/18 Analyzed: 08/26/18										
4,4'-DDD	0.097	0.0045	mg/Kg dry	0.113	ND	86.3	30-150			
4,4'-DDD [2C]	0.10	0.0045	mg/Kg dry	0.113	ND	89.3	30-150			V-06
Heptachlor Epoxide	0.094	0.0056	mg/Kg dry	0.113	ND	83.7	30-150			
Heptachlor Epoxide [2C]	0.093	0.0056	mg/Kg dry	0.113	ND	82.6	30-150			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg dry	0.225		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg dry	0.225		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg dry	0.225		88.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg dry	0.225		82.2	30-150			
Matrix Spike Dup (B211097-MSD1)										
Source: 18H1232-02 Prepared: 08/24/18 Analyzed: 08/26/18										
4,4'-DDD	0.099	0.0047	mg/Kg dry	0.117	ND	84.5	30-150	1.80	30	
4,4'-DDD [2C]	0.10	0.0047	mg/Kg dry	0.117	ND	88.8	30-150	3.34	30	V-06
Heptachlor Epoxide	0.097	0.0059	mg/Kg dry	0.117	ND	82.7	30-150	2.77	30	
Heptachlor Epoxide [2C]	0.096	0.0059	mg/Kg dry	0.117	ND	81.8	30-150	2.97	30	
Surrogate: Decachlorobiphenyl	0.204		mg/Kg dry	0.234		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg dry	0.234		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg dry	0.234		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg dry	0.234		81.0	30-150			



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211116 - SW-846 3050B										
Blank (B211116-BLK1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	ND	0.50	mg/Kg wet							
Zinc	0.64	0.67	mg/Kg wet							J
LCS (B211116-BS1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	110	1.5	mg/Kg wet	111		98.8	83-117.1			
Zinc	202	2.0	mg/Kg wet	199		102	81.4-119.1			
LCS Dup (B211116-BSD1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	109	1.5	mg/Kg wet	111		98.0	83-117.1	0.875	30	
Zinc	199	2.0	mg/Kg wet	199		99.9	81.4-119.1	1.67	30	
MRL Check (B211116-MRL1)										
					Prepared: 08/25/18 Analyzed: 08/27/18					
Lead	0.577	0.50	mg/Kg wet	0.502		115	80-120			
Matrix Spike (B211116-MS1)										
					Source: 18H1232-04		Prepared: 08/25/18 Analyzed: 08/27/18			
Lead	27.3	0.61	mg/Kg dry	20.5	7.20	98.2	75-125			
Zinc	63.8	0.82	mg/Kg dry	40.9	19.4	109	75-125			
Matrix Spike (B211116-MS2)										
					Source: 18H1232-02		Prepared: 08/25/18 Analyzed: 08/27/18			
Lead	19.3	0.58	mg/Kg dry	19.4	1.11	94.0	75-125			
Zinc	50.8	0.78	mg/Kg dry	38.8	16.0	89.8	75-125			
Matrix Spike Dup (B211116-MSD1)										
					Source: 18H1232-04		Prepared: 08/25/18 Analyzed: 08/27/18			
Lead	29.9	0.61	mg/Kg dry	20.5	7.20	111	75-125	9.25	35	
Zinc	60.3	0.82	mg/Kg dry	40.9	19.4	100	75-125	5.59	35	
Matrix Spike Dup (B211116-MSD2)										
					Source: 18H1232-02		Prepared: 08/25/18 Analyzed: 08/27/18			
Lead	19.3	0.59	mg/Kg dry	19.5	1.11	93.2	75-125	0.234	35	
Zinc	52.0	0.78	mg/Kg dry	39.0	16.0	92.3	75-125	2.32	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 B211106 - % Solids										
Duplicate (B211106-DUP1)	Source: 18H1232-02			Prepared: 08/24/18 Analyzed: 08/25/18						
% Solids	85.4		% Wt		85.3			0.120	20	
Duplicate (B211106-DUP2)	Source: 18H1232-04			Prepared: 08/24/18 Analyzed: 08/25/18						
% Solids	80.6		% Wt		80.8			0.150	20	

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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 8081B in Soil	
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
SW-846 8260C in Soil	
Ethylbenzene	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA



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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

August 29, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1237

Enclosed are results of analyses for samples received by the laboratory on August 24, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
 74 Hudson River Road
 Waterford, NY 12188
 ATTN: Keith Decker

REPORT DATE: 8/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1237

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU3-SED-1-1	18H1237-01	Soil		SM 2540G SW-846 6010D	
OU3-SED-1-2	18H1237-02	Soil		SM 2540G SW-846 6010D	
OU3-SED-1-3	18H1237-03	Soil		SM 2540G SW-846 6010D	
OU3-SED-1-4	18H1237-04	Soil		SM 2540G SW-846 6010D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-1

Sample ID: 18H1237-01

Start Date/Time: 8/22/2018 1:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:04:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	26	0.81	0.48	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 13:55	EJB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-1

Sample ID: 18H1237-01

Start Date/Time: 8/22/2018 1:56:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:04:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.1		% Wt	1		SM 2540G	8/28/18	8/29/18 11:11	MAT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-2

Sample ID: 18H1237-02

Start Date/Time: 8/22/2018 2:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:23:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.4	0.69	0.40	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 14:00	EJB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-2

Sample ID: 18H1237-02

Start Date/Time: 8/22/2018 2:14:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:23:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.5		% Wt	1		SM 2540G	8/28/18	8/29/18 11:11	MAT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-3

Sample ID: 18H1237-03

Start Date/Time: 8/22/2018 2:40:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:49:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	44	0.66	0.39	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 14:05	EJB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-3

Sample ID: 18H1237-03

Start Date/Time: 8/22/2018 2:40:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 2:49:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1		SM 2540G	8/28/18	8/29/18 11:11	MAT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-4

Sample ID: 18H1237-04

Start Date/Time: 8/22/2018 2:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:03:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.8	0.64	0.38	mg/Kg dry	1		SW-846 6010D	8/28/18	8/29/18 14:09	EJB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake

Sample Description:

Work Order: 18H1237

Date Received: 8/24/2018

Field Sample #: OU3-SED-1-4

Sample ID: 18H1237-04

Start Date/Time: 8/22/2018 2:55:00PM

Sample Matrix: Soil

Stop Date/Time: 8/22/2018 3:03:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	8/28/18	8/29/18 11:11	MAT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1237-01 [OU3-SED-1-1]	B211302	08/28/18
18H1237-02 [OU3-SED-1-2]	B211302	08/28/18
18H1237-03 [OU3-SED-1-3]	B211302	08/28/18
18H1237-04 [OU3-SED-1-4]	B211302	08/28/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1237-01 [OU3-SED-1-1]	B211303	1.51	50.0	08/28/18
18H1237-02 [OU3-SED-1-2]	B211303	1.55	50.0	08/28/18
18H1237-03 [OU3-SED-1-3]	B211303	1.49	50.0	08/28/18
18H1237-04 [OU3-SED-1-4]	B211303	1.59	50.0	08/28/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211303 - SW-846 3050B										
Blank (B211303-BLK1)					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	ND	0.49	mg/Kg wet							
LCS (B211303-BS1)					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	102	1.5	mg/Kg wet	111		92.2	83-117.1			
LCS Dup (B211303-BSD1)					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	103	1.5	mg/Kg wet	111		93.2	83-117.1	1.05	30	
MRL Check (B211303-MRL1)					Prepared: 08/28/18 Analyzed: 08/29/18					
Lead	0.506	0.50	mg/Kg wet	0.503		101	80-120			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211302 - % Solids

Duplicate (B211302-DUP7)

Source: 18H1237-01

Prepared: 08/28/18 Analyzed: 08/29/18

% Solids	61.8		% Wt		61.1			1.20	20	
----------	------	--	------	--	------	--	--	------	----	--

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

SW-846 6010D in Soil

Lead CT,NH,NY,AIHA,ME,VA,NC

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
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	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
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	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: LAND Remediation
Address: 74 Hudson River Road Waterford, New York 12188
Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake OU_3

Project Number:
Project Manager: Matthew Warren

Con-Test Quote Name/Number:
Invoice Recipient: miw@land-remediation.com
Sampled By: Kyle Jones

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: CAT B - Equis
CLP Like Data Pkg Required:
Email To: miw@land-remediation
Fax To #: JKL@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc. Code
1	OU3-SED-1-1 HOLD	8/22/2018 13:56	8/22/2018 14:04	X	S	L	L
2	OU3-SED-1-2 HOLD	8/22/2018 14:14	8/22/2018 14:23	X	S	L	L
3	OU3-SED-1-3 HOLD	8/22/2018 14:40	8/22/2018 14:49	X	S	L	L
4	OU3-SED-1-4 HOLD	8/22/2018 14:55	8/22/2018 15:03	X	S	L	L
5	OU3-SED-2-1 HOLD	8/22/2018 16:01	8/22/2018 16:09	X	S	L	L
6	OU3-SED-2-2 HOLD	8/22/2018 16:15	8/22/2018 16:20	X	S	L	L
7	OU3-SED-2-3 HOLD	8/22/2018 16:25	8/22/2018 16:30	X	S	L	L
8	OU3-SED-2-4 HOLD	8/22/2018 16:35	8/22/2018 16:41	X	S	L	L

Comments: LRI Personnel - Attached

Only report analytes shown on Table 4-3 (Attached for reference).

Relinquished by: (signature) [Signature] Date/Time: 8/22/18 19:131

Received by: (signature) [Signature] Date/Time: 8-24-18 9:00 A

Relinquished by: (signature) [Signature] Date/Time: 8-24-18 13:30

Received by: (signature) [Signature] Date/Time: 8/24/18

Relinquished by: (signature) [Signature] Date/Time: 8/24/18 4:220

Received by: (signature) [Signature] Date/Time: 14:55:20,42

Samples -01 through -04 activated on 8/28 for Pb 6010 - ALB

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

Concentration	VOC 8270	SVOC 8260	Metals 6010	Pesticides
3				
1				
1				

ANALYSIS REQUESTED

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

Deliverables
Enhanced Data Package
NYSDEC EQUIS EDD
EQUIS (Standard) EDD
NY Regulatory EDD
NY Regs Hits-Only EDD

Project Entity
 Government
 Federal
 City
Municipality 21 J
Brownfield
MWRA School
MBTA
WRTA
A/HA-LAP, LLC
Other

18A1237

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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 Land Remediation

Received By ESD Date 8-24-18 Time 14:35

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 # 533 Actual Temp - 2.0, 4.7
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

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Acid _____ Base _____

Who was notified? _____

Who was notified? _____

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	8	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-	16	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: