



FUSS & O'NEILL
CELEBRATING 90 YEARS

October 28, 2014

Mr. Craig Mansfield
Director of Facilities and Emergency Management
Town of East Haddam/Board of Education
7 Main Street, PO Box K
East Haddam, CT 06423

RE: Residual Pesticide Screening Evaluation
218 Mount Parnassus Road, East Haddam, Connecticut

Dear Mr. Mansfield:

Fuss & O'Neill is pleased to provide the results of our residual pesticide screening investigation at the above-referenced property, (hereinafter the "Site"). We understand that the Site is being developed as a community garden and that this screening was conducted as part of due diligence activities. Furthermore, we understand that the Site historically was used as farmland, and therefore, the potential for the presence of residual pesticides exists.

In summary, organochlorine pesticides were not detected in any of the samples collected from the Site. Additionally, lead and arsenic were not detected at concentrations exceeding typical background ranges for Connecticut soils. These results indicate that residual pesticides are not present at the Site. Our sampling protocol and results are described in further detail below.

Sampling Protocol

Our pesticide screening evaluation consisted of the collection of nine surficial soil samples (0 to 6 inches below grade) from various locations across the Site, as shown on *Figure 1*. The Connecticut Department of Energy and Environmental Protection (DEEP) and Department of Health recommend that samples be collected from shallow depths because pesticides are typically applied to the surfaces of plants and the ground surface; and therefore, this is the depth interval most likely to contain the highest concentrations of residual pesticides. The sampling locations were distributed across the portions of the Site where historical farming practices were reportedly conducted. Two samples were collected within the fenced-in community garden; three within the former garden greenhouse area, and three were collected within the seven-acre field. One base line ("background") sample was collected in an area not associated with historical farming activity.

146 Hartford Road
Manchester, CT
06040
t 860.646.2469
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www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

Mr. Craig Mansfield

October 28, 2014

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The surficial soil samples were collected manually and were submitted to Phoenix Environmental Laboratories of Manchester, a State-certified analytical laboratory, on October 15, 2014. Each sample was analyzed for organochlorine pesticides using USEPA Method 8081 and the heavy metals arsenic and lead. These compounds are constituents that were commonly applied to farms in Connecticut and may remain in residual concentrations due to their persistence in the environment.

Summary of Sampling Results

The laboratory analytical report is provided in *Attachment A*. A discussion of the analytical results is provided below:

At each sampling location across the Site, arsenic and lead were detected at concentrations similar to the baseline sample results and within concentrations typical of background ranges for Connecticut soils. As a rule of thumb, arsenic is typically found in Connecticut soils at concentrations ranging up to 5 milligrams per kilogram (mg/kg) and lead up to 50 mg/kg. Additionally, organochlorine pesticides were not detected in any of the surficial soil samples collected by Fuss & O'Neill.

Data Usability

Procedures used to ensure data quality include the use of Connecticut's Reasonable Confidence Protocols (RCP) and laboratory quality assurance/quality control (QA/QC) procedures. The usability of the laboratory data is supported by the following:

- The analytical results for a duplicate sample collected from location SS-09 are comparable with those of the primary sample.
- QA/QC data and an RCP evaluation provided with the laboratory analytical reports were reviewed. The results of laboratory QA/QC analyses are within acceptable ranges, and the laboratory reported that "reasonable confidence" was achieved on all analyses conducted. A review of the narratives revealed no notes that affect the usability of the data. QA/QC data and an RCP evaluation are included in the laboratory analytical report provided in *Attachment A*.

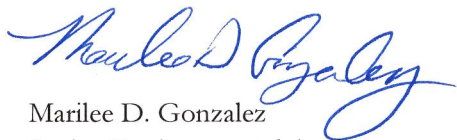
Mr. Craig Mansfield
October 28, 2014
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Conclusions and Recommendations


Organochlorine pesticides were not detected in shallow soil collected at locations where historic farming activities occurred. Additionally, levels of lead and arsenic were detected within typical background concentrations, similar to the baseline sample collected outside of the farmed areas.

Thank you for the opportunity to provide you with environmental consulting services. If you have any questions or comments, please do not hesitate to contact the undersigned.

Sincerely,



Marilee D. Gonzalez
Senior Environmental Analyst



Brent J. Henebry, LEP
Associate

Enclosures: *Figure 1: Site Plan*
 Attachment A: Laboratory Analytical Report

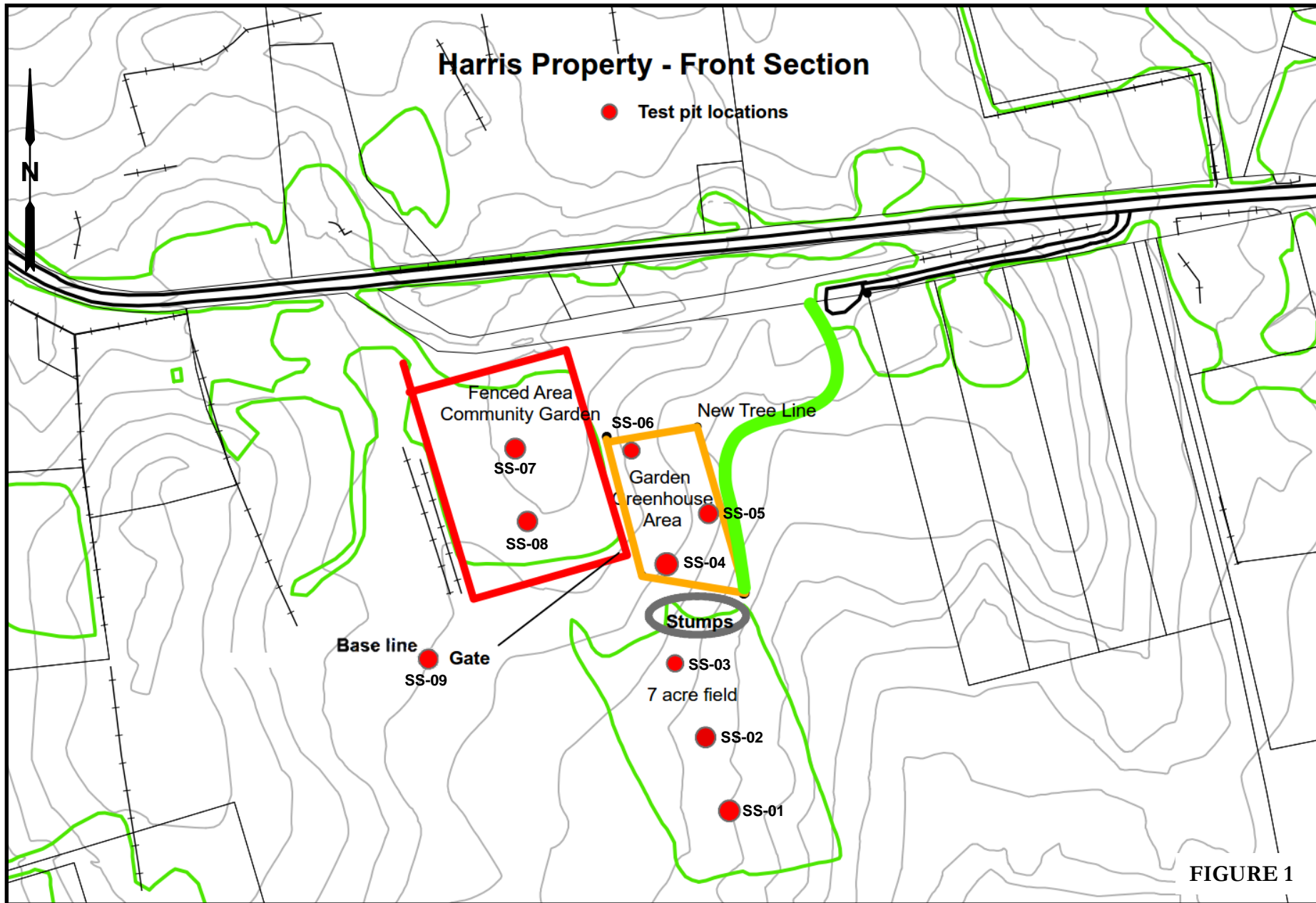


FIGURE 1

NOTES:

LOCATION OF ANNOTATED FEATURES ARE APPROXIMATE, MAP NOT TO SCALE,
MAP AND SAMPLING LOCATIONS PROVIDED BY THE TOWN OF EAST HADDAM



FUSS & O'NEILL

146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

SITE PLAN

218 MOUNT PARNASSUS RD

EAST HADDAM

CONNECTICUT

PROJ NO. 20140031.A20

DATED: OCTOBER 2014

SCALE = NTS



ATTACHMENT A LABORATORY ANALYTICAL RESULTS



Tuesday, October 21, 2014

Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: MOUNT PARNASSUS RD.
Sample ID#s: BH27771 - BH27780

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

Phyllis Shiller
Laboratory Director

RCP Check MJV 10/27/2014

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

12:10
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27771

Project ID: MOUNT PARNASSUS RD. SS-01 (0 - 6")
Client ID: 1192141015-01

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.8	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	14.3	0.44	mg/Kg	10/16/14	LK	SW6010
QC for ICP	Completed			10/16/14		SW6010
Percent Solid	79		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
MS/MSD Ext. for Pesticide	Completed			10/15/14		
Total Metals Digest MS/MSD	Completed			10/16/14		
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.3	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	42	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.3	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.3	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Heptachlor epoxide	ND	8.3	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	42	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	76		%	10/16/14	CE	30 - 150 %
% TCMX	85		%	10/16/14	CE	30 - 150 %
QC for Pesticides	Completed			10/17/14		

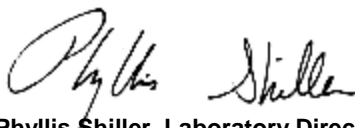
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

12:25
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27772

Project ID: MOUNT PARNASSUS RD. SS-02 (0 - 6")
Client ID: 1192141015-02

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.2	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	16.8	0.46	mg/Kg	10/16/14	LK	SW6010
Percent Solid	76		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.7	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.7	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.7	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	43	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.7	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	43	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	49		%	10/16/14	CE	30 - 150 %
% TCMX	77		%	10/16/14	CE	30 - 150 %

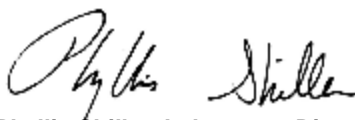
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

12:35
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27773

Project ID: MOUNT PARNASSUS RD. SS-03 (0 - 6")
Client ID: 1192141015-03

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.5	0.8	mg/Kg	10/16/14	LK	SW6010
Lead	15.9	0.41	mg/Kg	10/16/14	LK	SW6010
Percent Solid	78		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.5	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.5	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.5	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	42	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.5	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	42	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	42		%	10/16/14	CE	30 - 150 %
% TCMX	73		%	10/16/14	CE	30 - 150 %

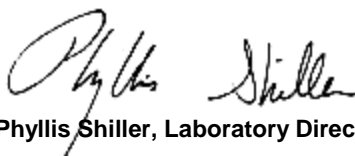
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

12:50
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27774

Project ID: MOUNT PARNASSUS RD. SS-04 (0 - 6")
Client ID: 1192141015-04

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.4	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	13.0	0.43	mg/Kg	10/16/14	LK	SW6010
Percent Solid	75		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.7	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.7	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.7	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.4	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	44	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.4	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.7	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.7	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	44	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	49		%	10/16/14	CE	30 - 150 %
% TCMX	65		%	10/16/14	CE	30 - 150 %

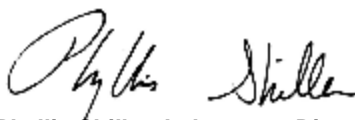
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

13:05
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27775

Project ID: MOUNT PARNASSUS RD. SS-05 (0 - 6")
Client ID: 1192141015-05

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.3	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	16.7	0.44	mg/Kg	10/16/14	LK	SW6010
Percent Solid	77		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.6	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.6	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.6	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	43	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.6	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.6	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	43	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	51		%	10/16/14	CE	30 - 150 %
% TCMX	73		%	10/16/14	CE	30 - 150 %

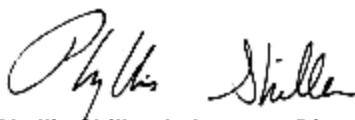
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

13:25
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27776

Project ID: MOUNT PARNASSUS RD. SS-06 (0 - 6")
Client ID: 1192141015-06

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.9	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	15.3	0.43	mg/Kg	10/16/14	LK	SW6010
Percent Solid	80		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.2	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.2	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.2	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.1	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	41	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.1	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.2	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.6	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.2	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	41	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	160	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	45		%	10/16/14	CE	30 - 150 %
% TCMX	80		%	10/16/14	CE	30 - 150 %

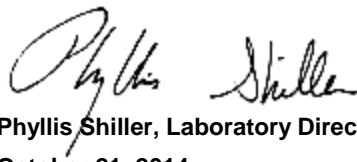
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

13:50
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27777

Project ID: MOUNT PARNASSUS RD. SS-07 (0 - 6")
Client ID: 1192141015-07

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.4	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	15.7	0.43	mg/Kg	10/16/14	LK	SW6010
Percent Solid	77		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.5	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.5	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.5	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	43	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.5	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.5	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	43	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	46		%	10/16/14	CE	30 - 150 %
% TCMX	73		%	10/16/14	CE	30 - 150 %

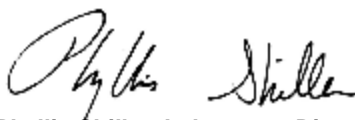
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

14:05
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27778

Project ID: MOUNT PARNASSUS RD. SS-08 (0 - 6")
Client ID: 1192141015-08

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.0	0.8	mg/Kg	10/16/14	LK	SW6010
Lead	19.8	0.38	mg/Kg	10/16/14	LK	SW6010
Percent Solid	79		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	8.4	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	8.4	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	8.4	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	42	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.2	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	8.4	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.7	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	8.4	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	42	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	170	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	44		%	10/16/14	CE	30 - 150 %
% TCMX	78		%	10/16/14	CE	30 - 150 %

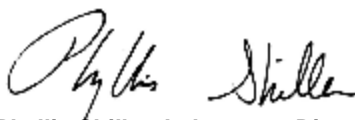
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

14:30
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27779

Project ID: MOUNT PARNASSUS RD. SS-09 (0 - 6")
Client ID: 1192141015-09

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.2	0.9	mg/Kg	10/16/14	LK	SW6010
Lead	24.7	0.44	mg/Kg	10/16/14	LK	SW6010
Percent Solid	70		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	9.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	9.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	9.3	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.7	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	47	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	9.3	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.9	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	47	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	190	ug/Kg	10/16/14	CE	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	47		%	10/16/14	CE	30 - 150 %
% TCMX	80		%	10/16/14	CE	30 - 150 %

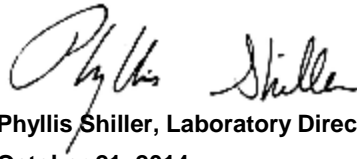
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn: Mrs. Marilee Gonzalez
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20140031.A20

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

10/15/14
10/15/14

Time

14:31
15:39

Laboratory Data

SDG ID: GBH27771
Phoenix ID: BH27780

Project ID: MOUNT PARNASSUS RD. SS-09 (0 - 6")
Client ID: 1192141015-10 Duplicate

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	2.2	1.0	mg/Kg	10/16/14	LK	SW6010
Lead	26.5	0.48	mg/Kg	10/16/14	LK	SW6010
Percent Solid	70		%	10/15/14	I	E160.3
Soil Extraction for Pesticide	Completed			10/15/14	JB/H	SW3545
Total Metals Digest	Completed			10/15/14	CB/AG	SW846 - 3050

Pesticides

4,4' -DDD	ND	9.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDE	ND	9.3	ug/Kg	10/16/14	CE	SW8081
4,4' -DDT	ND	9.3	ug/Kg	10/16/14	CE	SW8081
a-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Alachlor	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Aldrin	ND	4.7	ug/Kg	10/16/14	CE	SW8081
b-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Chlordane	ND	47	ug/Kg	10/16/14	CE	SW8081
d-BHC	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Dieldrin	ND	4.7	ug/Kg	10/16/14	CE	SW8081
Endosulfan I	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan II	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endosulfan sulfate	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin aldehyde	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Endrin ketone	ND	9.3	ug/Kg	10/16/14	CE	SW8081
g-BHC	ND	1.9	ug/Kg	10/16/14	CE	SW8081
Heptachlor	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Heptachlor epoxide	ND	9.3	ug/Kg	10/16/14	CE	SW8081
Methoxychlor	ND	47	ug/Kg	10/16/14	CE	SW8081
Toxaphene	ND	190	ug/Kg	10/16/14	CE	SW8081

Project ID: MOUNT PARNASSUS RD. SS-09 (0 - 6")
Client ID: 1192141015-10 Duplicate

Phoenix I.D.: BH27780

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	39		%	10/16/14	CE	30 - 150 %
% TCMX	77		%	10/16/14	CE	30 - 150 %

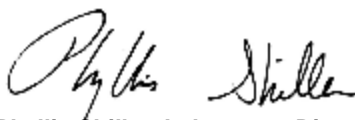
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

October 21, 2014

Reviewed and Released by: Ethan Lee, Project Manager



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 21, 2014

QA/QC Data

SDG I.D.: GBH27771

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 289288, QC Sample No: BH27612 (BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778)												
<u>ICP Metals - Soil</u>												
Arsenic	BRL	2.6	2.72	NC	96.1	102	6.0	89.8	91.2	1.5	75 - 125	30
Lead	BRL	12.8	16.1	22.8	92.7	96.7	4.2	90.2	92.5	2.5	75 - 125	30
QA/QC Batch 289299, QC Sample No: BH27771 (BH27771, BH27779, BH27780)												
<u>ICP Metals - Soil</u>												
Arsenic	BRL	2.8	2.91	NC	98.1	106	7.7	92.6	93.5	1.0	75 - 125	30
Lead	BRL	14.3	13.6	5.00	94.5	101	6.6	94.2	95.3	1.2	75 - 125	30



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 21, 2014

QA/QC Data

SDG I.D.: GBH27771

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 289297, QC Sample No: BH27771 (BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780)									
<u>Pesticides - Soil</u>									
4,4' -DDD	ND	70	82	15.8	87	86	1.2	40 - 140	30
4,4' -DDE	ND	67	79	16.4	84	81	3.6	40 - 140	30
4,4' -DDT	ND	66	77	15.4	82	79	3.7	40 - 140	30
a-BHC	ND	73	87	17.5	94	93	1.1	40 - 140	30
a-Chlordane	ND	71	85	17.9	92	88	4.4	40 - 140	30
Alachlor	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	76	84	10.0	93	89	4.4	40 - 140	30
b-BHC	ND	72	83	14.2	91	89	2.2	40 - 140	30
Chlordane	ND	73	86	16.4	92	89	3.3	40 - 140	30
d-BHC	ND	64	73	13.1	83	80	3.7	40 - 140	30
Dieldrin	ND	65	77	16.9	83	81	2.4	40 - 140	30
Endosulfan I	ND	68	82	18.7	96	92	4.3	40 - 140	30
Endosulfan II	ND	47	47	0.0	87	84	3.5	40 - 140	30
Endosulfan sulfate	ND	51	55	7.5	62	70	12.1	40 - 140	30
Endrin	ND	68	82	18.7	87	85	2.3	40 - 140	30
Endrin aldehyde	ND	44	42	4.7	51	62	19.5	40 - 140	30
Endrin ketone	ND	71	79	10.7	82	89	8.2	40 - 140	30
g-BHC	ND	65	77	16.9	86	84	2.4	40 - 140	30
g-Chlordane	ND	73	86	16.4	92	89	3.3	40 - 140	30
Heptachlor	ND	71	83	15.6	90	86	4.5	40 - 140	30
Heptachlor epoxide	ND	71	82	14.4	91	88	3.4	40 - 140	30
Methoxychlor	ND	71	85	17.9	179	>200	NC	40 - 140	30 m
Toxaphene	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	92	75	89	17.1	71	80	11.9	30 - 150	30
% TCMX	93	79	91	14.1	86	90	4.5	30 - 150	30

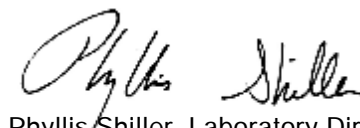
Comment:

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
October 21, 2014

Tuesday, October 21, 2014

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBH27771 - FO

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill, Inc.
Project Location: MOUNT PARNASSUS RD. **Project Number:**
Laboratory Sample ID(s): BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780

Sampling Date(s): 10/15/2014

RCP Methods Used:

☐ 1311/1312 ☒ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☒ 8081 ☐ EPH ☐ TO15
☐ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

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 CT DEP 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.	EPH and VPH methods only: Was the VPH or 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"/> NA
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"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Section: PEST Narration.	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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 <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

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:



Date: Tuesday, October 21, 2014

Printed Name: Ethan Lee

Position: Project Manager

Nov 2007

RCP ✓



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

October 21, 2014

SDG I.D.: GBH27771

BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

Answer to question 6.

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes. RCP ✓

Instrument: Arcos 10/16/14-1 (BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780)

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin

Position: Chemist

Date: 10/16/2014

QC (Site Specific)

----- Sample No: BH27771, QA/QC Batch: 289299 -----

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

All MSD recoveries were within 75 - 125 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

QC (Batch Specific)

----- Sample No: BH27612, QA/QC Batch: 289288 -----

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



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RCP Certification Report

October 21, 2014

SDG I.D.: GBH27771

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 289297 (Samples: BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780): -----

The MS and/or the MSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Methoxychlor)

Answer to question 4.

Instrument: Au-ecd13 10/16/14-1 (BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780)

8081 Narration:

Endrin and DDT breakdown was evaluated and does not exceed 15%.

The initial calibration RSD for the compound list was less than 20% except for the following compounds: None

The continuing calibration standards were within acceptance criteria except for the following compounds: Dieldrin recovered below acceptance criteria. A low "1A" standard was run to demonstrate capability to detect this compound at the designated RL.

Printed Name Carol Eddy
Position: Chemist
Date: 10/16/2014

QC Comments: QC Batch 289297 10/15/14 (BH27771, BH27772, BH27773, BH27774, BH27775, BH27776, BH27777, BH27778, BH27779, BH27780)

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QC (Site Specific)

----- Sample No: BH27771, QA/QC Batch: 289297 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 150 with the following exceptions: Methoxychlor(179%)

All MSD recoveries were within 30 - 150 with the following exceptions: Methoxychlor(>200%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.



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RCP Certification Report

October 21, 2014

SDG I.D.: GBH27771

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

RCP ✓



FUSS & O'NEILL

(860) 646-2469 • www.FandO.com

- ☐ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201

- ☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY

☐ Other

CHAIN-OF-CUSTODY RECORD 33152

PROJECT NAME

Mount Parnassus Road East Haddam, CT

REPORT TO: Marilee Gonzalez, Efo

INVOICE TO:

P.O. No.:

Sampler's Signature: *R. M. [Signature]*

Date: 10/15/14

Source Codes:

MW=Monitoring Well

SW=Surface Water

T=Treatment Facility

W=Waste

A=Air

S=Soil

B=Sediment

X=Other

PROJECT LOCATION

20140031-A20

Analysis Request

Containers

LABORATORY

Phoenix

Turnaround

- ☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5) days *Surcharge Applies

Soil VOA Val, □ methanol	Other	Water VOA Val, □ As is	Glass Amber ()	Plastic - As is, □ 250 ml □ 500 ml □ 1000 ml	Plastic - H ₂ SO ₄ , □ 250 ml □ 500 ml □ 1000 ml	Plastic - HNO ₃ , □ 250 ml □ 500 ml □ 1000 ml	Plastic - NaOH, 250 ml □ 0.45μ □ 10μ
Soil VOA Val, □ water □ Na ₂ SO ₃	Other	Water VOA Val, □ As is	Glass Amber ()	Plastic - As is, □ 250 ml □ 500 ml □ 1000 ml	Plastic - H ₂ SO ₄ , □ 250 ml □ 500 ml □ 1000 ml	Plastic - HNO ₃ , □ 250 ml □ 500 ml □ 1000 ml	Plastic - NaOH, 250 ml □ 0.45μ □ 10μ

Item No.	Transfer Check	Sample Number	Source Code	Date Sampled	Time Sampled	Comments
01		1192141015-01	S	10/15/14	1210	27771 MS/MSD
02		-02			1225	27772
03		-03			1235	27773
04		-04			1250	27774
05		-05			1305	27775
06		-06			1325	27776
07		-07			1350	27777
08		-08			1405	27778
09		-09			1430	27779
10		-10			1431	27780

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: <input type="checkbox"/> CT Tax Exempt <input checked="" type="checkbox"/> QA/QC <input type="checkbox"/> Other _____
1	<i>[Signature]</i>	<i>[Signature]</i>	10/15/14	1535	Duplicates _____ Blanks (Item Nos: _____)
2					Reporting and Detection Limit Requirements: <input checked="" type="checkbox"/> RCP Deliverables <input type="checkbox"/> MCP CAM Cert.
3					GA/DES DEL
4					Additional Comments: One duplicate submitted for pesticides, lead, arsenic