

Wednesday, February 22, 2017

Attn:

Fuss & O'Neill EnviroScience, LLC 145 Hartford Road Manchester, CT 06040

Project ID: RECLAMATION YARD Sample ID#s: BX63251 - BX63260

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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,

Phyllis/Shiller

**Laboratory Director** 

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



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

**Analysis Report** 

February 22, 2017

FOR: Attn:

Fuss & O'Neill EnviroScience, LLC

145 Hartford Road Manchester, CT 06040

Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63251

Project ID: RECLAMATION YARD

Client ID: 20170214BH-J1-H3

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	90		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
PCB (Soxhlet SW3540C	<u>:)</u>						
PCB-1016	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1221	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1232	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1242	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1248	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1254	2.5	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1260	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1262	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1268	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	02/20/17	AW	30 - 150 %
% TCMX	43		%	10	02/20/17	AW	30 - 150 %

Project ID: RECLAMATION YARD

Client ID: 20170214BH-J1-H3

Phoenix I.D.: BX63251

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

February 22, 2017



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P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63252

Project ID: RECLAMATION YARD

Client ID: 20170214BH-J1-H2

RL/ r Result PQL

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
TCLP Lead	0.16	0.10	mg/L	1	02/16/17	LK	SW6010C
TCLP Metals Digestion	Completed				02/16/17	Q/Q	SW3005A
Percent Solid	87		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
TCLP Extraction for Metals	Completed				02/15/17	Q	SW1311
PCB (Soxhlet SW3540	<u>(C)</u>						
PCB-1016	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1221	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1232	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1242	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1248	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1254	7.4	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1260	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1262	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
PCB-1268	ND	1.9	mg/kg	50	02/16/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	02/16/17	AW	30 - 150 %
% TCMX	Diluted Out		%	50	02/16/17	AW	30 - 150 %

Client ID: 20170214BH-J1-H2

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

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Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63253

Project ID: RECLAMATION YARD

Client ID: 20170214BH-J1-H1

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	89		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
PCB (Soxhlet SW354	10C)						
PCB-1016	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1221	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1232	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1242	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1248	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1254	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1260	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1262	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
PCB-1268	ND	0.36	mg/kg	10	02/17/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	68		%	10	02/17/17	AW	30 - 150 %
% TCMX	80		%	10	02/17/17	AW	30 - 150 %

Client ID: 20170214BH-J1-H1

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

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Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63254

Project ID: RECLAMATION YARD

Client ID: 20170214BH-E1-H3

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	86		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
PCB (Soxhlet SW3540C	)						
PCB-1016	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1221	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1232	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1242	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1248	*	* 0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1254	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1260	4	* 0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1262	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
PCB-1268	ND	0.56	mg/kg	10	02/17/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	02/17/17	AW	30 - 150 %
% TCMX	105		%	10	02/17/17	AW	30 - 150 %

Client ID: 20170214BH-E1-H3

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

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### Comments:

### PCB Comment:

\* For PCBs, as per section 11.9.3 of SW846 method 8082, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1260. The PCB is quantitated as a timed group and is reported as the Aroclor 1260.

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145 Hartford Road Manchester, CT 06040

Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63255

Project ID: RECLAMATION YARD

Client ID: 20170214BH-E1-H3-D

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	87		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
PCB (Soxhlet SW3540C	3)						
PCB-1016	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1221	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1232	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1242	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1248	*	* 0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1254	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1260	1.7	* 0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1262	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
PCB-1268	ND	0.37	mg/kg	10	02/17/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	02/17/17	AW	30 - 150 %
% TCMX	103		%	10	02/17/17	AW	30 - 150 %

Project ID: RECLAMATION YARD

Client ID: 20170214BH-E1-H3-D

Phoenix I.D.: BX63255

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

### PCB Comment:

\* For PCBs, as per section 11.9.3 of SW846 method 8082, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1260. The PCB is quantitated as a timed group and is reported as the Aroclor 1260.

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February 22, 2017



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**Analysis Report** 

February 22, 2017

FOR: Attn:

Fuss & O'Neill EnviroScience, LLC

145 Hartford Road Manchester, CT 06040

<u>Sample Information</u> <u>Custody Information</u> <u>Date</u> <u>Time</u>

Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

81

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63256

Project ID: RECLAMATION YARD

Client ID: 20170214BH-E1-H2

RL/ Parameter Result **PQL** Units Dilution Date/Time Reference Βy TCLP Lead 0.32 0.10 mg/L 1 02/17/17 LK SW6010C Completed 02/16/17 Q/Q SW3005A **TCLP Metals Digestion** SW846-%Solid Percent Solid 86 % 02/15/17 Q X/R SW3540C Extraction for PCB Completed 02/15/17 SW1311 TCLP Extraction for Metals Completed 02/15/17 Q PCB (Soxhlet SW3540C) PCB-1016 ND 10 02/17/17 AW SW8082A 0.38 mg/kg SW8082A PCB-1221 ND 0.38 10 02/17/17 AW mg/kg ND 0.38 10 02/17/17 ΑW SW8082A PCB-1232 mg/kg PCB-1242 ND 0.38 mg/kg 10 02/17/17 AW SW8082A SW8082A PCB-1248 0.38 mg/kg 10 02/17/17 AW SW8082A ND 0.38 10 02/17/17 PCB-1254 mg/kg AW 0.81 0.38 10 02/17/17 AW SW8082A PCB-1260 mg/kg PCB-1262 ND 0.38 mg/kg 10 02/17/17 AW SW8082A ND 0.38 10 02/17/17 ΑW SW8082A PCB-1268 mg/kg **QA/QC Surrogates** 81 10 02/17/17 ΑW 30 - 150 % % DCBP %

%

10

02/17/17

ΑW

30 - 150 %

% TCMX

Client ID: 20170214BH-E1-H2

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

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### Comments:

### PCB Comment:

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Fuss & O'Neill EnviroScience, LLC

145 Hartford Road Manchester, CT 06040

Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63257

Project ID: RECLAMATION YARD Client ID: 20170214BH-E1-H1

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	87		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
PCB (Soxhlet SW3540	<u>(C)</u>						
PCB-1016	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1221	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1232	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1242	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1248	*	* 0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1254	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1260	2.6	* 0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1262	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
PCB-1268	ND	0.38	mg/kg	10	02/17/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	02/17/17	AW	30 - 150 %
% TCMX	106		%	10	02/17/17	AW	30 - 150 %

Client ID: 20170214BH-E1-H1

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

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Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63258

Project ID: RECLAMATION YARD

Client ID: 20170214BH-K1

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
TCLP Lead	< 0.10	0.10	mg/L	1	02/17/17	LK	SW6010C
TCLP Metals Digestion	Completed				02/16/17	Q/Q	SW3005A
Percent Solid	88		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
TCLP Extraction for Metals	Completed				02/15/17	Q	SW1311
PCB (Soxhlet SW3540	<u>C)</u>						
PCB-1016	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1221	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1232	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1242	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1248	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1254	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1260	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1262	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
PCB-1268	ND	0.38	mg/kg	10	02/16/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	96		%	10	02/16/17	AW	30 - 150 %
% TCMX	103		%	10	02/16/17	AW	30 - 150 %

Client ID: 20170214BH-K1

RL/

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Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63259

Project ID: RECLAMATION YARD

Client ID: 20170214BH-K2

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
TCLP Lead	< 0.10	0.10	mg/L	1	02/17/17	LK	SW6010C
TCLP Metals Digestion	Completed				02/16/17	Q/Q	SW3005A
Percent Solid	90		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/17/17	BX/IR	SW3540C
TCLP Extraction for Metals	Completed				02/15/17	Q	SW1311
PCB (Soxhlet SW3540	(C)						
PCB-1016	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1221	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1232	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1242	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1248	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1254	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1260	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1262	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
PCB-1268	ND	0.37	mg/kg	10	02/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	02/20/17	AW	30 - 150 %
% TCMX	104		%	10	02/20/17	AW	30 - 150 %

Client ID: 20170214BH-K2

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **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

February 22, 2017



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**Analysis Report** 

February 22, 2017

FOR: Attn:

Fuss & O'Neill EnviroScience, LLC

145 Hartford Road Manchester, CT 06040

Matrix: SOIL Collected by: BH 02/14/17

Location Code: F&OENVPCBDAS Received by: SW 02/15/17 14:39

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20161049A3E Laboratory Data SDG ID: GBX63251

Phoenix ID: BX63260

Project ID: RECLAMATION YARD

Client ID: 20170214BH-K3

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
TCLP Lead	< 0.10	0.10	mg/L	1	02/17/17	LK	SW6010C
TCLP Metals Digestion	Completed				02/16/17	Q/Q	SW3005A
Percent Solid	82		%		02/15/17	Q	SW846-%Solid
Extraction for PCB	Completed				02/15/17	X/R	SW3540C
TCLP Extraction for Metals	Completed				02/15/17	Q	SW1311
PCB (Soxhlet SW3540	<u>C)</u>						
PCB-1016	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1221	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1232	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1242	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1248	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1254	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1260	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1262	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
PCB-1268	ND	0.4	mg/kg	0	02/16/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	105		%	0	02/16/17	AW	30 - 150 %
% TCMX	113		%	0	02/16/17	AW	30 - 150 %

Client ID: 20170214BH-K3

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **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

February 22, 2017



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## QA/QC Report

February 22, 2017

## QA/QC Data

SDG I.D.: GBX63251

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 376506 (mg/L), (	QC Samp	ole No:	BX63332	(BX632	52, BX6	3256, 1	BX6325	8, BX63	3259, E	3X63260	))		
ICP Metals - TCLP Extra	<u>ction</u>												
Lead	BRL	0.10	1.28	1.18	8.10	95.5			91.2			75 - 125	20



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## QA/QC Report

February 22, 2017

## QA/QC Data

SDG I.D.: GBX63251

Parameter	Blank	BIk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits	
QA/QC Batch 376441 (ug/Kg), C	C Sam	ple No: BX61071 10X (BX632	51, BX63	252, BX	63253,	BX632	254, BX	63255,	BX6325	56,	
BX63257, BX63258, BX63260)											
Polychlorinated Biphenyls	<u>- Soil</u>										
PCB-1016	ND	33	93	89	4.4	68	79	15.0	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	99	94	5.2	90	94	4.3	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	120	%	106	102	3.8	93	98	5.2	30 - 150	30	
% TCMX (Surrogate Rec)	124	%	106	100	5.8	53	80	40.6	30 - 150	30	r
QA/QC Batch 376726 (ug/Kg), C	C Sam	ple No: BX69938 10X (BX632	59)								
Polychlorinated Biphenyls	- Soil										
PCB-1016	ND	170	85	79	7.3				40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	95	99	4.1				40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	113	%	116	119	2.6				30 - 150	30	
% TCMX (Surrogate Rec)	97	%	92	62	39.0				30 - 150	30	r

r = This parameter is outside laboratory RPD 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

February 22, 2017

Wednesday, February 22, 2017

# Sample Criteria Exceedances Report GBX63251 - FOENVPCBDAS

Criteria: None State: CT

RL Analysis SampNo Acode Phoenix Analyte Criteria Units

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.

<sup>\*\*\*</sup> No Data to Display \*\*\*



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:Phoenix Environmental Labs, Inc.Client:Fuss & O'Neill EnviroScience, LLProject Location:RECLAMATION YARDProject Number:Laboratory Sample ID(s):BX63251-BX63260Sampling Date(s):2/14/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 8082

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?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: PCB Narration.	☐ Yes 🗹 No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes 🗹 No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.
Authorized Signature: Han Lee Position: Project Manager
Printed Name: Ethan Lee Date: Wednesday, February 22, 2017
Name of Laboratory Phoenix Environmental Labs, Inc.

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



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## **RCP Certification Report**

February 22, 2017 SDG I.D.: GBX63251

### **SDG Comments**

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported as requested on the chain of custody.

### ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

ARCOS 02/16/17 03:32

Laura Kinnin, Chemist 02/16/17

BX63252

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### ARCOS 02/17/17 08:02

Laura Kinnin, Chemist 02/17/17

BX63256, BX63258, BX63259, BX63260

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### QC (Batch Specific):

#### Batch 376506 (BX63332)

BX63252, BX63256, BX63258, BX63259, BX63260

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

### **PCB Narration**

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

QC Batch 376726 (Samples: BX63259): -----

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% TCMX (Surrogate Rec))

### Instrument:

#### AU-ECD24 02/17/17-1

Adam Werner, Chemist 02/17/17

BX63254, BX63255, BX63256, BX63257

The initial calibration (PC1228AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC1228BI) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

**AU-ECD29 02/16/17-1** Adam Werner, Chemist 02/16/17

BX63252, BX63258, BX63260

The initial calibration (PC0202AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC0202BI) RSD for the compound list was less than 20% except for the following compounds: None.



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## **RCP Certification Report**

February 22, 2017 SDG I.D.: GBX63251

### **PCB Narration**

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

### AU-ECD48 02/16/17-1

Adam Werner, Chemist 02/16/17

BX63253

The initial calibration (PC0116AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC0116BI) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

### AU-ECD8 02/20/17-1

Adam Werner, Chemist 02/20/17

BX63251, BX63259

The initial calibration (PC0216AI) RSD for the compound list was less than 20% except for the following compounds: TCMX SURR (21%)

The initial calibration (PC0216BI) RSD for the compound list was less than 20% except for the following compounds: TCMX SURR (11%)

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

### QC (Batch Specific):

#### Batch 376441 (BX61071)

BX63251, BX63252, BX63253, BX63254, BX63255, BX63256, BX63257, BX63258, BX63260

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.

### Batch 376726 (BX69938)

BX63259

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: % TCMX (Surrogate Rec)(39.0%)

### **Temperature Narration**

The samples were received at 2C with cooling initiated. (Note acceptance criteria is above freezing up to 6°C)

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□ 146 Hartford Road, Manchester, CT 06040 □ 1419 Richland Street, Columbia, SC 29201 X56 Quarry Road, Trumbull, CT 06611

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	Relinquished By	Accepted By	Date	Time	Charge Exceptions:   CT Tax Exempt   QA/QC   Other   Duplicates  Blanks (Item Nos: )
$\vdash$	3. Hobbins	华市	£1-11-10	1700	244-77 1360 Reporting and Detection Limit Requirements.   RCP Deliverables   MCP CAM Cert.
	F105	my my	2-15-17 1100	1180	Wdd 7
	My Sell	Harly January	21.517	00:11	21/8/7 11:00 Additional Comments:
	All Mary Summer	MACH	WA 215 1434	103	
	•				