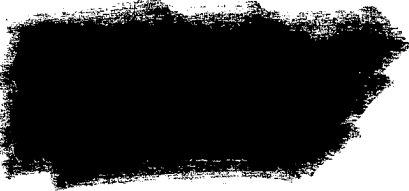




Thursday, July 16, 2015



Project ID: MONTHLY 503 CAKE
Sample ID#s: BJ45165

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,



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



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

Analysis Report

July 16, 2015

FOR: 

Sample Information

Matrix: SLUDGE
Location Code: VEOLIACRANS
Rush Request: Standard
P.O.#: 7756000503

Custody Information

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

Date Time

07/09/15
07/10/15 18:04

Laboratory Data

SDG ID: GBJ45165
Phoenix ID: BJ45165

Project ID: MONTHLY 503 CAKE
Client ID: SEWAGE SLUDGE 24 HR COMP

Parameter	Result	RU/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.3	0.8	mg/Kg	1	07/14/15	EK	SW6010C
Beryllium	1.03	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Cadmium	3.70	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Cobalt	3.86	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Chromium	51.3	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Copper	660	4.2	mg/Kg	10	07/15/15	EK	SW6010C
Mercury	0.52	0.09	mg/kg	1	07/15/15	RS	SW7471B
Manganese	421	0.84	mg/Kg	10	07/15/15	EK	SW6010C
Molybdenum	8.64	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Nickel	43.7	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Lead	49.9	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Antimony	< 4.2	4.2	mg/Kg	1	07/14/15	EK	SW6010C
Selenium	41.6	2.1	mg/Kg	1	07/14/15	EK	SW6010C
Vanadium	12.3	0.42	mg/Kg	1	07/14/15	EK	SW6010C
Zinc	889	4.2	mg/Kg	10	07/15/15	EK	SW6010C
Percent Solid	27.1	1	%				SW846-%Solid
Total Solids @ 104C	27.1	0.1	%	1	07/14/15	TM	SM2540B-97
Chromium, Hexavalent	< 3.70	3.70	mg/Kg	1	07/15/15	KH	SW7196A
pH - Soil	5.48	0.10	pH Units	1	07/10/15 21:30	DH/KDB	SW9046
Redox Potential	-30	1.0	mV	1	07/10/15	DH/KDB	SM2580B-09
Mercury Digestion	Completed				07/15/15	VI	SW7471B
Total Metals Digest	Completed				07/10/15	GI/AGI	SW3050B
Hexavalent Chromium Soil Digestion	Completed		mg/Kg		07/10/15		SW3060

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

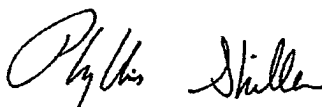
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

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

July 16, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report
 July 16, 2015

QA/QC Data

SDG I.D.: GBJ45165

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 313515 (mg/kg), QC Sample No: BJ45016 (BJ45165)

ICP Metals - Soil

Antimony	BRL	3.3	<3.3	<3.5	NC	104	112	7.4	85.2	87.1	2.2	75 - 125	30
Arsenic	BRL	0.67	5.4	5.81	7.30	96.8	98.0	1.2	94.0	96.0	2.1	75 - 125	30
Beryllium	BRL	0.27	0.36	0.37	NC	101	100	1.0	98.5	98.9	0.4	75 - 125	30
Cadmium	BRL	0.33	<0.33	<0.35	NC	100	101	1.0	94.7	95.9	1.3	75 - 125	30
Chromium	BRL	0.33	11.9	11.4	4.30	105	105	0.0	98.9	101	2.1	75 - 125	30
Copper	BRL	0.33	17.9	16.2	10.0	106	106	0.0	103	105	1.9	75 - 125	30
Lead	BRL	0.33	16.2	14.7	9.70	98.5	95.5	3.1	92.2	93.4	1.3	75 - 125	30
Nickel	BRL	0.33	10.1	10.3	2.00	104	104	0.0	95.8	98.2	2.5	75 - 125	30
Selenium	BRL	1.3	<1.3	<1.4	NC	82.1	82.4	0.4	85.8	86.2	0.5	75 - 125	30
Vanadium	BRL	0.33	23.3	22.9	1.70	112	114	1.8	99.1	102	2.9	75 - 125	30
Zinc	BRL	0.33	33.6	34.4	2.40	97.6	99.0	1.4	93.2	96.0	3.0	75 - 125	30

QA/QC Batch 313828 (mg/kg), QC Sample No: BJ45054 (BJ45165)

Mercury - Soil	BRL	0.06	0.07	0.09	NC	104	94.1	10.0	82.1	89.6	8.7	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QA/QC Batch 313894 (mg/kg), QC Sample No: BJ45165 (BJ45165)

Chromium, Hexavalent (SW3060 digestion) - Sludge

Hexavalent Cr	BRL	0.40	<3.70	<3.70	NC	97.4						70 - 130	30	
Insoluble Cr						105		<10.0				70 - 130	30	m
Soluble Cr						49.7		<10.0				70 - 130	30	L,m

Comment:

The QC sample is in a reducing state, acceptance criteria are not applicable for samples in a reducing state. The soluble spike was analyzed twice with similar recoveries.

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



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QA/QC Report

July 16, 2015

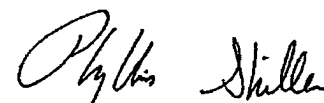
QA/QC Data

SDG I.D.: GBJ45165

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 313719 (), QC Sample No: BJ44961 (BJ45165)													
Total Solids	BRL	0.1	17.7	18.0	1.70	100						85 - 115	30
QA/QC Batch 313550 (PH), QC Sample No: BJ45169 (BJ45165)													
pH - Soil			8.68	8.92	2.70	99.5						85 - 115	20

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
July 16, 2015

Thursday, July 16, 2015

Sample Criteria Exceedences Report

Page 1 of 1

Criteria: None

State: RI

GBJ45165 - VEOLIACRANS

SampNo Acode

Phoenix Analyte

Criteria

Result

RL

Criteria

RL Analysis
Criteria Units

*** 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.



Friday, July 17, 2015



Project ID: TCLP SLUDGE Q3
Sample ID#s: BJ45164

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 cursive script that reads "Phyllis Shiller".

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



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

Analysis Report
 July 17, 2015

FOR: 

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIACRANS
 Rush Request: Standard
 P.O.#: 7756000503

Custody Information

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

Date Time
 07/09/15
 07/10/15 18:04

Laboratory Data

SDG ID: GBJ45164
 Phoenix ID: BJ45164

Project ID: TCLP SLUDGE Q3
 Client ID: TCLP SLUDGE CAKE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	27.2	1	%				SW846-%Solid
Total Solids @ 104C	27.2	0.1	%	1	07/14/15	TM	SM2540B-97
Fixed Solids @ 500C	23.7	0.1	%	1	07/14/15	TM	E160.4
pH - Sludge	5.53	0.10	pH Units	1	07/10/15 21:30	DH/KDB	SW9045
Volatile Solids @ 500C	76.3	0.1	%	1	07/14/15	TM	SM2540E/E160.4-9
Sludge Ext. for PCB	Completed				07/13/15	M/M	SW3550C
TCLP Herbicides Extraction	Completed				07/13/15	D/D	SW8150 MOD
TCLP Extraction for Organics	Completed				07/10/15	I	SW1311
TCLP Pesticides Extraction	Completed				07/13/15	L	SW3510C
TCLP Semi-Volatile Extraction	Completed				07/13/15	L	SW3510C
TCLP Extraction Volatiles	Completed				07/10/15	Y	SW1311

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1221	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1232	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1242	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1248	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1254	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1260	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1262	ND	370	ug/Kg	1	07/14/15	AW	SW8082A
PCB-1268	ND	370	ug/Kg	1	07/14/15	AW	SW8082A

QA/QC Surrogates

% DCBP	122		%	1	07/14/15	AW	30 - 150 %
% TCMX	98		%	1	07/14/15	AW	30 - 150 %

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	10	07/15/15	BB	SW8151A
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-D	ND	4.2	ug/L	10	07/15/15	BB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	81		%	10	07/15/15	BB	30 - 150 %
<u>TCLP Pesticides</u>							
4,4' -DDD	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
a-BHC	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Alachlor	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Aldrin	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
b-BHC	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Chlordane	ND	5.0	ug/L	10	07/14/15	CE	SW8081B
d-BHC	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Dieldrin	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
Endosulfan I	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Endosulfan II	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
Endrin	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	07/14/15	CE	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Heptachlor	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Methoxychlor	ND	0.50	ug/L	10	07/14/15	CE	SW8081B
Toxaphene	ND	20	ug/L	10	07/14/15	CE	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	42		%	10	07/14/15	CE	30 - 150 %
%TCMX (Surrogate Rec)	70		%	10	07/14/15	CE	30 - 150 %
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	200	ug/L	40	07/13/15	RM	SW8260C
1,2-Dichloroethane	ND	200	ug/L	40	07/13/15	RM	SW8260C
Benzene	ND	200	ug/L	40	07/13/15	RM	SW8260C
Carbon tetrachloride	ND	200	ug/L	40	07/13/15	RM	SW8260C
Chlorobenzene	ND	200	ug/L	40	07/13/15	RM	SW8260C
Chloroform	ND	200	ug/L	40	07/13/15	RM	SW8260C
Methyl ethyl ketone	900	200	ug/L	40	07/13/15	RM	SW8260C
Tetrachloroethene	ND	200	ug/L	40	07/13/15	RM	SW8260C
Trichloroethene	ND	200	ug/L	40	07/13/15	RM	SW8260C
Vinyl chloride	ND	200	ug/L	40	07/13/15	RM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	40	07/13/15	RM	70 - 130 %
% Bromofluorobenzene	96		%	40	07/13/15	RM	70 - 130 %
% Dibromofluoromethane	103		%	40	07/13/15	RM	70 - 130 %
% Toluene-d8	98		%	40	07/13/15	RM	70 - 130 %
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	83	ug/L	1	07/14/15	KCA	SW8270D
2,4,5-Trichlorophenol	ND	83	ug/L	1	07/14/15	KCA	SW8270D
2,4,6-Trichlorophenol	ND	83	ug/L	1	07/14/15	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrotoluene	ND	83	ug/L	1	07/14/15	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	83	ug/L	1	07/14/15	KCA	SW8270D
3&4-Methylphenol (m&p-Cresol)	2300	420	ug/L	5	07/15/15	KCA	SW8270D
Hexachlorobenzene	ND	83	ug/L	1	07/14/15	KCA	SW8270D
Hexachlorobutadiene	ND	83	ug/L	1	07/14/15	KCA	SW8270D
Hexachloroethane	ND	83	ug/L	1	07/14/15	KCA	SW8270D
Nitrobenzene	ND	83	ug/L	1	07/14/15	KCA	SW8270D
Pentachlorophenol	ND	83	ug/L	1	07/14/15	KCA	SW8270D
Pyridine	ND	83	ug/L	1	07/14/15	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	1	07/14/15	KCA	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	07/14/15	KCA	30 - 130 %
% 2-Fluorophenol	52		%	1	07/14/15	KCA	15 - 110 %
% Nitrobenzene-d5	63		%	1	07/14/15	KCA	30 - 130 %
% Phenol-d5	47		%	1	07/14/15	KCA	15 - 110 %
% Terphenyl-d14	81		%	1	07/14/15	KCA	30 - 130 %

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

Comments:

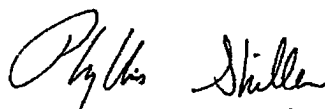
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:

Elevated reporting limits due to the foamy nature of the sample.

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

July 17, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ45164

Parameter	Blk Blank	Sample RL	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313719 (), QC Sample No: BJ44961 (BJ45164)												
Total Solids	BRL	0.1	17.7	18.0	1.70	100					85 - 115	30
QA/QC Batch 313549 (PH), QC Sample No: BJ45016 (BJ45164)												
pH - Soil		8.15	8.06	1.10	99.5						85 - 115	20



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QA/QC Report
 July 17, 2015

QA/QC Data

SDG I.D.: GBJ45164

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313129 (ug/Kg), QC Sample No: BJ41932 (BJ45164)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13	86	50	52.9				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	100	63	45.4				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	102	%	117	64	58.6				30 - 150	30
% TCMX (Surrogate Rec)	78	%	89	51	54.3				30 - 150	30
QA/QC Batch 313118 (ug/L), QC Sample No: BJ42048 10X (BJ45164)										
<u>Chlorinated Herbicides</u>										
2,4,5-TP (Silvex)	ND	1.3	65	67	3.0				40 - 140	20
2,4-D	ND	1.3	71	76	6.8				40 - 140	20
% DCAA (Surrogate Rec)	67	%	60	59	1.7				30 - 150	20
QA/QC Batch 313499 (ug/L), QC Sample No: BJ44264 (BJ45164)										
<u>Semivolatiles</u>										
1,4-Dichlorobenzene	ND	17	64	59	8.1				30 - 130	20
2,4,5-Trichlorophenol	ND	17	94	86	8.9				30 - 130	20
2,4,6-Trichlorophenol	ND	17	94	85	10.1				30 - 130	20
2,4-Dinitrotoluene	ND	58	99	85	15.2				30 - 130	20
2-Methylphenol (o-cresol)	ND	17	79	71	10.7				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	17	78	70	10.8				30 - 130	20
Hexachlorobenzene	ND	0.28	91	83	9.2				30 - 130	20
Hexachlorobutadiene	ND	0.83	69	62	10.7				30 - 130	20
Hexachloroethane	ND	0.83	59	54	8.8				30 - 130	20
Nitrobenzene	ND	0.83	80	73	9.2				30 - 130	20
Pentachlorophenol	ND	5.0	108	88	20.4				30 - 130	20
Pyridine	ND	8.3	26	27	3.8				30 - 130	20
% 2,4,6-Tribromophenol	75	%	79	74	6.5				15 - 110	20
% 2-Fluorobiphenyl	74	%	76	71	6.8				30 - 130	20
% 2-Fluorophenol	59	%	56	53	5.5				15 - 110	20
% Nitrobenzene-d5	75	%	75	69	8.3				30 - 130	20
% Phenol-d5	49	%	50	44	12.8				15 - 110	20
% Terphenyl-d14	93	%	97	90	7.5				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GBJ45164

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313689 (ug/L), QC Sample No: BJ45469 (BJ45164)										
<u>Pesticides</u>										
4,4' -DDD	ND	0.003	83	90	8.1				40 - 140	20
4,4' -DDE	ND	0.003	87	84	3.5				40 - 140	20
4,4' -DDT	ND	0.003	90	92	2.2				40 - 140	20
a-BHC	ND	0.005	82	85	3.6				40 - 140	20
a-Chlordane	ND	0.005	83	84	1.2				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	62	67	7.8				40 - 140	20
b-BHC	ND	0.005	89	89	0.0				40 - 140	20
Chlordane	ND	0.050	78	80	2.5				40 - 140	20
d-BHC	ND	0.005	82	82	0.0				40 - 140	20
Dieldrin	ND	0.002	83	87	4.7				40 - 140	20
Endosulfan I	ND	0.005	88	86	2.3				40 - 140	20
Endosulfan II	ND	0.005	85	88	3.5				40 - 140	20
Endosulfan sulfate	ND	0.005	87	89	2.3				40 - 140	20
Endrin	ND	0.005	84	87	3.5				40 - 140	20
Endrin aldehyde	ND	0.005	94	96	2.1				40 - 140	20
g-BHC	ND	0.002	83	84	1.2				40 - 140	20
g-Chlordane	ND	0.005	78	80	2.5				40 - 140	20
Heptachlor	ND	0.005	81	84	3.6				40 - 140	20
Heptachlor epoxide	ND	0.005	83	84	1.2				40 - 140	20
Methoxychlor	ND	0.005	92	92	0.0				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	72	%	79	69	13.5				40 - 140	20
% TCMX	69	%	88	92	4.4				40 - 140	20

Comment:

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

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

July 17, 2015

Friday, July 17, 2015

Sample Criteria Exceedences Report

Criteria: None

State: RI

GBJ45164 - VEOLIA CRANS

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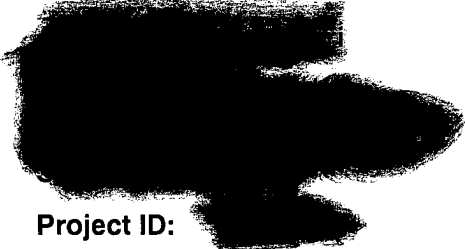
*** No Data to Display ***

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.

M49



Wednesday, April 15, 2015



Project ID:
Sample ID#s: BH99856

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 cursive script that reads "Phyllis Shiller".

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



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



Analysis Report

April 15, 2015

FOR:

Sample Information

Matrix: **SLUDGE**
 Location Code:
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time
 04/08/15 10:00
 04/08/15 16:43

Laboratory Data

SDG ID: GBH99856
 Phoenix ID: BH99856

Project ID:
 Client ID: **SLUDGE**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 3.3	3.3	mg/Kg	1	04/09/15	EK	SW6010C
Beryllium	< 1.7	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Cadmium	< 1.7	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Chromium	4.6	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Copper	208	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Lead	12.3	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Mercury	< 1.2	1.2	mg/kg	1	04/13/15	RS	SW7471B
Nickel	11.3	1.7	mg/Kg	1	04/09/15	EK	SW6010C
Selenium	< 8.4	8.4	mg/Kg	1	04/09/15	EK	SW6010C
Zinc	493	17	mg/Kg	10	04/09/15	EK	SW6010C
Percent Solid	0.609	1	%				SW846-%Solid
Total Solids @ 104C	0.609	0.1	%	1	04/09/15	KH	SM2540B-97
Fixed Solids @ 500C	30.8	0.1	%	1	04/09/15	KH	E160.4
Ammonia as Nitrogen	< 5400	5400	mg/Kg	1	04/13/15	WHM	E350.1
Nitrite as N	< 16	16	mg/kg	10	04/09/15	BS/EG	SW9056A
Nitrate as N	< 82	82	mg/kg	10	04/09/15	BS/EG	SW9056A
Organic Nitrogen	14200	2200	mg/Kg	1	04/13/15	WHM	E350.1/E350.2
pH - Sludge	7.12	0.10	pH Units	1	04/08/15 22:00	O/EG	SW9045
Nitrogen Tot Kjeldahl	14200	11000	mg/Kg	1	04/13/15	WHM	E351.1
Volatile Solids @ 500C	69.2	0.1	%	1	04/09/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/13/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/09/15	M/M	SW3550C
Total Metals Digest	Completed				04/08/15	CB/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1221	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1232	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1248	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1254	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1260	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1262	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
PCB-1268	ND	16000	ug/Kg	1	04/10/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	127		%	1	04/10/15	AW	30 - 150 %
% TCMX	94		%	1	04/10/15	AW	30 - 150 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

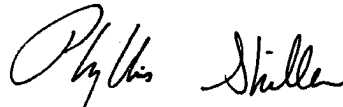
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

April 15, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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



QA/QC Report

April 15, 2015

QA/QC Data

SDG I.D.: GBH99856

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 303918 (mg/kg), QC Sample No: BH99665 (BH99856)

ICP Metals - Soil

Arsenic	BRL	0.63	<0.7	0.71	NC	99.0	94.7	4.4	94.3	94.1	0.2	75 - 125	30
Beryllium	BRL	0.25	0.80	0.91	NC	101	97.2	3.8	97.3	97.2	0.1	75 - 125	30
Cadmium	BRL	0.32	<0.37	<0.34	NC	99.3	96.7	2.7	95.9	96.7	0.8	75 - 125	30
Chromium	BRL	0.32	75.4	77.7	3.00	100	95.5	4.6	96.3	106	9.6	75 - 125	30
Copper	BRL	0.32	29.9	32.0	6.80	98.4	94.7	3.8	106	107	0.9	75 - 125	30
Lead	BRL	0.32	9.47	11.4	18.5	100	98.3	1.7	94.4	94.9	0.5	75 - 125	30
Nickel	BRL	0.32	55.5	57.3	3.20	98.5	94.6	4.0	93.5	101	7.7	75 - 125	30
Selenium	BRL	1.3	<1.5	<1.4	NC	94.6	90.9	4.0	81.7	82.3	0.7	75 - 125	30
Zinc	BRL	0.32	59.4	66.8	11.7	98.1	94.1	4.2	91.8	95.5	4.0	75 - 125	30

QA/QC Batch 304181 (mg/kg), QC Sample No: BJ00087 (BH99856)

Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	110	107	2.8	103	105	1.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.



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QA/QC Report

April 15, 2015

QA/QC Data

SDG I.D.: GBH99856

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 303991 (), QC Sample No: BH93169 (BH99856)													
Total Solids	BRL	0.1	59.1	59.6	0.80	100						85 - 115	30
QA/QC Batch 304016 (PH), QC Sample No: BH99685 (BH99856)													
pH - Soil			8.62	8.48	1.60	99.0						85 - 115	20
QA/QC Batch 304201 (mg/L), QC Sample No: BH99990 (BH99856)													
Ammonia as Nitrogen	BRL	0.05	<0.05	<0.05	NC	102			99.0			85 - 115	20
Nitrogen Tot Kjeldahl	BRL	0.10	<0.10	<0.10	NC	96.0			88.6			85 - 115	20
QA/QC Batch 304408 (mg/L), QC Sample No: BJ00132 (BH99856)													
Nitrate as Nitrogen	BRL	0.05	0.73	0.73	0	101			98.2			85 - 115	20
Nitrite as Nitrogen	BRL	0.004	<0.004	<0.004	NC	101			96.6			85 - 115	20



Environmental Laboratories, Inc.
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QA/QC Report

April 15, 2015

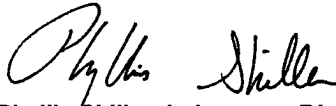
QA/QC Data

SDG I.D.: GBH99856

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 304022 (ug/Kg), QC Sample No: BH92773 (BH99856)										
Polychlorinated Biphenyls - Sludge										
PCB-1016	ND	13	66	71	7.3				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	79	86	8.5				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	94	%	95	101	6.1				30 - 150	30
% TCMX (Surrogate Rec)	75	%	75	72	4.1				30 - 150	30

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
 April 15, 2015

Wednesday, April 15, 2015

Sample Criteria Exceedences Report

Page 1 of 1

Criteria: None

GBH99856 - PEPSI

State: NY

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.



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



NY Temperature Narration

April 15, 2015

SDG I.D.: GBH99856

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes No
 Colloant: JPK JCE N
 Temp _____ °C Pg _____ of _____

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: _____
 Address: _____

Project: _____
 Report to: SJOE CANTINIERI
 Invoice to: VEOLIA WATER

Project P.O.: _____
 Phone #: 914-767-7791
 Fax #: _____

Client Sample - Information - Identification
 Date: 4-8-15

Matrix Code: DW=Drinking Water SE=Sediment	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	Sludge	SL	4-8-15	10:00
	Sludge	SL	4-8-15	10:00
	Sludge	SL	4-8-15	10:00
	Sludge	SL	4-8-15	10:00

Analysis Request	Soil VOA Vial [methanol] 1 H2O	GL Soil Container () oz	40 ml VOA Vial [As Is] 1 HCl	PL As Is [H2SO4] [500ml] [1500ml]	PL H2SO4 [1250ml] [500ml] [1000ml]	PL HNO3 250ml	Bacteria Bottle
* <u>STATE ATTACHED</u>							
X							
X							
X							
X							

Relinquished by: [Signature] Accepted by: [Signature]

Date: 4-8-15 Time: 11:45
9:45 16:43

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other

RI Direct Exposure (Residential)
 GW
 Other

CT RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 IIC DEC
 Other

MA MCP Certification
 GW-1
 GW-2
 GW-3
 S-1
 S-2
 S-3
 MWRA eSMART
 Other

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

State where samples were collected: _____

Comments, Special Requirements or Regulations:
 * SAMPLE quote number *
 VEO 31915BB
 - Attached -

M52
VEOLIA

~~200 CT 2015 110~~

7-20-15



Monday, July 20, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ46738

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 cursive script that reads "Phyllis Shiller".

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



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

Analysis Report
 July 20, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

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

Date Time
 07/13/15
 07/14/15 16:19

Laboratory Data

SDG ID: GBJ46738
 Phoenix ID: BJ46738

Project ID: NAUGATUCK
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.7	0.9	mg/Kg	1	07/15/15	EK	SW6010C
Beryllium	< 0.43	0.43	mg/Kg	1	07/15/15	EK	SW6010C
Cadmium	1.62	0.43	mg/Kg	1	07/15/15	EK	SW6010C
Chromium	47.3	0.43	mg/Kg	1	07/15/15	EK	SW6010C
Copper	717	4.3	mg/Kg	10	07/15/15	EK	SW6010C
Mercury	< 0.29	0.29	mg/kg	1	07/15/15	RS	SW7471B
Nickel	18.7	0.43	mg/Kg	1	07/15/15	EK	SW6010C
Lead	70.5	0.43	mg/Kg	1	07/15/15	EK	SW6010C
Selenium	5.7	2.1	mg/Kg	1	07/15/15	EK	SW6010C
Zinc	969	4.3	mg/Kg	10	07/15/15	EK	SW6010C
Percent Solid	2.70	1	%				SW846-%Solid
Total Solids @ 104C	2.70	0.1	%	1	07/16/15	TM	SM2540B-97
Fixed Solids @ 500C	28.9	0.1	%	1	07/16/15	TM	E160.4
pH - Sludge	5.34	0.10	pH Units	1	07/14/15 20:10	DH/JEG	SW9045
Volatile Solids @ 500C	71.1	0.1	%	1	07/16/15	TM	SM2540E/E160.4-9
Mercury Digestion	Completed				07/15/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				07/15/15	M/M	SW3550C
Total Metals Digest	Completed				07/14/15	G/G	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1221	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1232	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1242	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1248	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1254	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1260	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
PCB-1262	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A

Project ID: NAUGATUCK
Client ID: SLUDGE

Phoenix I.D.: BJ46738

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	3600	ug/Kg	1	07/17/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	63		%	1	07/17/15	AW	30 - 150 %
% TCMX	56		%	1	07/17/15	AW	30 - 150 %

B = Present in blank, no bias suspected.

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

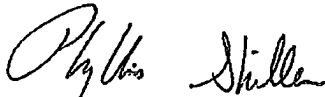
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

July 20, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report
 July 20, 2015

QA/QC Data

SDG I.D.: GBJ46738

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 313829 (mg/kg), QC Sample No: BJ45962 (BJ46738)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	98.1	99.3	1.2	102	101	1.0	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QA/QC Batch 313780 (mg/kg), QC Sample No: BJ46131 (BJ46738)

ICP Metals - Soil

Arsenic	BRL	0.67	5.6	5.09	9.50	91.2	96.2	5.3	87.8	93.2	6.0	75 - 125	30	
Beryllium	BRL	0.27	0.37	0.37	NC	95.0	100	5.1	92.7	98.3	5.9	75 - 125	30	
Cadmium	BRL	0.33	0.28	0.26	NC	96.6	98.4	1.8	89.4	94.5	5.5	75 - 125	30	
Chromium		0.52	0.33	13.2	14.3	8.00	100	105	4.9	94.9	102	7.2	75 - 125	30
Copper	BRL	0.33	20.3	20.2	0.50	98.6	106	7.2	101	108	6.7	75 - 125	30	
Lead	BRL	0.33	142	187	27.4	90.5	96.6	6.5	80.7	89.5	10.3	75 - 125	30	
Nickel	BRL	0.33	12.2	12.0	1.70	98.8	103	4.2	91.9	98.7	7.1	75 - 125	30	
Selenium	BRL	1.3	<1.4	<1.3	NC	81.7	86.9	6.2	81.9	86.7	5.7	75 - 125	30	
Zinc		0.99	0.33	81.9	74.3	9.70	93.1	95.5	2.5	82.7	98.7	17.6	75 - 125	30



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

QA/QC Report

July 20, 2015

QA/QC Data

SDG I.D.: GBJ46738

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 313996 (), QC Sample No: BJ46326 (BJ46738)													
Total Solids	0.203	0.1	19.1	19.3	1.00	100						85 - 115	30
QA/QC Batch 313871 (PH), QC Sample No: BJ46739 (BJ46738)													
pH - Soil			7.86	7.89	0.40	99.7						85 - 115	20



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

QA/QC Report

July 20, 2015

QA/QC Data

SDG I.D.: GBJ46738

Parameter	Bik		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 313893 (ug/Kg), QC Sample No: BJ45310 (BJ46738)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13	78	74	5.3				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	88	87	1.1				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	94	%	105	101	3.9				30 - 150	30
% TCMX (Surrogate Rec)	72	%	81	75	7.7				30 - 150	30

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
 Phyllis Shiller, Laboratory Director
 July 20, 2015

Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ46738 - VEOLIANA

Sample No	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.





CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0623
 Client Services (860) 645-8726

Coolant: Yes No
 IPK CE Pg of
 Temp °C °F

Data Delivery:

Fax # _____
 Email: tom.deller@veolia.com

Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: 3rd Qtr 2015
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Project P.O.: 3rd Qtr

This section MUST be completed with Bottle Quantities.

Sampler's Signature: *[Signature]* T-Deller Date: 7-14-15

Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE # 46738 Customer Sample Identification Sludge Date Sampled 7/13/15 Time Sampled N/A

Analysis Request	Asens	Chromium	Copper	Lead	Mercury	Nickel	Pb	PCBs	Selenium	Fixed Solids	Total Solids	Volatiles	Solids	Zinc	SOI VOA Vials	1 methanol	1 H2O	GL Soil container	8 oz	40 ml VOA Vial	1 x 1.5 liter	1 HCl	PL Amber 100ml	1 x 1.5 liter	1 HCl	PL H2SO4	1 x 1.5 liter	1 H2SO4	PL H2SO4	1 x 250ml	1 500ml	1 1000ml	Bacteria Bottle	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Requisitioned by: *[Signature]* Accepted by: *[Signature]* Date: 7/14/15 Time: 12:30

Comments, Special Requirements or Regulations: 3rd Qtr 2015 Poughkeepsie Liquid

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other

RI Direct Exposure (Residential)
 GW
 Other

CT RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA MCP Certification
 GW-1
 GW-2
 GW-3
 S-1
 S-2
 S-3
 MWRA eSMART
 Other

Data Formats: Excel PDF GIS/Key EQUIS Other

Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other

* SURCHARGE APPLIES

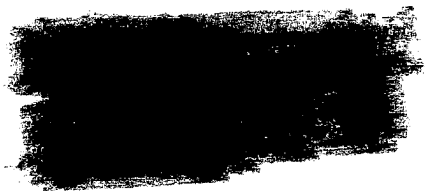
State where samples were collected: _____

M14

2nd Qtr 5-10-15



Friday, May 15, 2015



Project ID: TCLP SLUDGE CAKE
Sample ID#s: BJ14173

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.

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



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (880) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2015

FOR: [REDACTED]

Sample Information

Matrix: SLUDGE
Location Code: VEOLICRANS
Rush Request: Standard
P.O.#: 7756000503

Custody Information

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

Date Time

05/07/15
05/08/15 15:49

Laboratory Data

SDG ID: GBJ14173
Phoenix ID: BJ14173

Project ID: TCLP SLUDGE CAKE
Client ID: TCLP SLUDGE CAKE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Herbicides Extraction	Completed				05/13/15	FD	SW8160 MOD
TCLP Extraction for Organics	Completed				05/08/15	I	SW1311
TCLP Pesticides Extraction	Completed				05/11/15	LT	SW3510C
TCLP Semi-Volatile Extraction	Completed				05/11/15	LT	SW3510C
TCLP Extraction Volatiles	Completed				05/08/15	Y	SW1311

TCLP Herbicides

2,4,5-TP (Silvex)	ND	4.2	ug/L	10	05/14/15	BB	SW8151A
2,4-D	ND	4.2	ug/L	10	05/14/15	BB	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	57		%	10	05/14/15	BB	30 - 150 %

TCLP Pesticides

4,4' -DDD	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
4,4' -DDE	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
4,4' -DDT	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
a-BHC	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Alachlor	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Aldrin	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
b-BHC	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Chlordane	ND	5.0	ug/L	10	05/12/15	CE	SW8081B
d-BHC	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Dieldrin	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
Endosulfan I	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Endosulfan II	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
Endrin	ND	1.0	ug/L	10	05/12/15	CE	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	05/12/15	CE	SW8081B

Project ID: TCLP SLUDGE CAKE
 Client ID: TCLP SLUDGE CAKE

Phoenix I.D.: BJ14173

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
g-BHC (Lindane)	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Heptachlor	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Methoxychlor	ND	0.50	ug/L	10	05/12/15	CE	SW8081B
Toxaphene	ND	20	ug/L	10	05/12/15	CE	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	42		%	10	05/12/15	CE	30 - 150 %
%TCMX (Surrogate Rec)	72		%	10	05/12/15	CE	30 - 150 %
TCLP Volatiles							
1,1-Dichloroethene	ND	50	ug/L	10	05/11/15	HM	SW8260C
1,2-Dichloroethane	ND	50	ug/L	10	05/11/15	HM	SW8260C
Benzene	ND	50	ug/L	10	05/11/15	HM	SW8260C
Carbon tetrachloride	ND	50	ug/L	10	05/11/15	HM	SW8260C
Chlorobenzene	ND	50	ug/L	10	05/11/15	HM	SW8260C
Chloroform	ND	50	ug/L	10	05/11/15	HM	SW8260C
Methyl ethyl ketone	680	50	ug/L	10	05/11/15	HM	SW8260C
Tetrachloroethene	ND	50	ug/L	10	05/11/15	HM	SW8260C
Trichloroethene	ND	50	ug/L	10	05/11/15	HM	SW8260C
Vinyl chloride	ND	50	ug/L	10	05/11/15	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	10	05/11/15	HM	70 - 130 %
% Bromofluorobenzene	98		%	10	05/11/15	HM	70 - 130 %
% Dibromofluoromethane	104		%	10	05/11/15	HM	70 - 130 %
% Toluene-d8	101		%	10	05/11/15	HM	70 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	05/12/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	83	ug/L	1	05/12/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	83	ug/L	1	05/12/15	DD	SW8270D
2,4-Dinitrotoluene	ND	83	ug/L	1	05/12/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	83	ug/L	1	05/12/15	DD	SW8270D
3&4-Methylphenol (m&p-Cresol)	670	83	ug/L	1	05/12/15	DD	SW8270D
Hexachlorobenzene	ND	83	ug/L	1	05/12/15	DD	SW8270D
Hexachlorobutadiene	ND	83	ug/L	1	05/12/15	DD	SW8270D
Hexachloroethane	ND	83	ug/L	1	05/12/15	DD	SW8270D
Nitrobenzene	ND	83	ug/L	1	05/12/15	DD	SW8270D
Pentachlorophenol	ND	83	ug/L	1	05/12/15	DD	SW8270D
Pyridine	ND	83	ug/L	1	05/12/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	65		%	1	05/12/15	DD	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	05/12/15	DD	30 - 130 %
% 2-Fluorophenol	62		%	1	05/12/15	DD	15 - 110 %
% Nitrobenzene-d5	68		%	1	05/12/15	DD	30 - 130 %
% Phenol-d5	49		%	1	05/12/15	DD	15 - 110 %
% Terphenyl-d14	64		%	1	05/12/15	DD	30 - 130 %

Project ID: TCLP SLUDGE CAKE
Client ID: TCLP SLUDGE CAKE

Phoenix I.D.: BJ14173

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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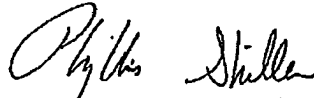
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Volatile Comment:

Elevated reporting limits due to the foamy nature of the sample.

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

May 15, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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

QA/QC Report

May 15, 2015

QA/QC Data

SDG I.D.: GBJ14173

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 307601 (ug/L), QC Sample No: BJ12633 (BJ14173 (10X))										
Volatiles - TCLP										
1,1-Dichloroethene	ND	5.0	98	104	5.9	117	116	0.9	70-130	30
1,2-Dichloroethane	ND	0.60	93	96	3.2	109	109	0.0	70-130	30
Benzene	ND	0.70	87	92	5.6	104	105	1.0	70-130	30
Carbon tetrachloride	ND	5.0	97	103	6.0	117	118	0.9	70-130	30
Chlorobenzene	ND	1.0	86	92	6.7	102	102	0.0	70-130	30
Chloroform	ND	5.0	92	97	5.3	113	112	0.9	70-130	30
Methyl ethyl ketone	ND	5.0	93	97	4.2	96	95	1.0	70-130	30
Tetrachloroethene	ND	1.0	89	95	6.5	105	108	2.8	70-130	30
Trichloroethene	ND	5.0	88	95	7.7	106	106	0.0	70-130	30
Vinyl chloride	ND	5.0	97	103	6.0	114	115	0.9	70-130	30
% 1,2-dichlorobenzene-d4	101	%	101	100	1.0	102	101	1.0	70-130	30
% Bromofluorobenzene	97	%	100	98	2.0	101	101	0.0	70-130	30
% Dibromofluoromethane	99	%	102	103	1.0	103	104	1.0	70-130	30
% Toluene-d8	100	%	100	99	1.0	100	101	1.0	70-130	30

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 307332 (ug/L), QC Sample No: BJ13674 (BJ14173)

Semivolatiles

1,4-Dichlorobenzene	ND	17	59	59	0.0				30-130	20
2,4,5-Trichlorophenol	ND	17	76	82	7.6				30-130	20
2,4,6-Trichlorophenol	ND	17	75	75	0.0				30-130	20
2,4-Dinitrotoluene	ND	58	72	72	0.0				30-130	20
2-Methylphenol (o-cresol)	ND	17	69	70	1.4				30-130	20
3&4-Methylphenol (m&p-cresol)	ND	17	68	66	3.0				30-130	20
Hexachlorobenzene	ND	0.28	80	79	1.3				30-130	20
Hexachlorobutadiene	ND	0.83	64	65	1.6				30-130	20
Hexachloroethane	ND	0.83	60	60	0.0				30-130	20
Nitrobenzene	ND	0.83	77	76	1.3				30-130	20
Pentachlorophenol	ND	5.0	62	64	3.2				30-130	20
Pyridine	ND	8.3	28	28	0.0				30-130	20
% 2,4,6-Tribromophenol	94	%	89	84	5.8				15-110	20
% 2-Fluorobiphenyl	65	%	67	68	1.5				30-130	20
% 2-Fluorophenol	51	%	48	48	0.0				15-110	20
% Nitrobenzene-d5	74	%	74	73	1.4				30-130	20
% Phenol-d5	46	%	43	42	2.4				15-110	20
% Terphenyl-d14	78	%	72	75	4.1				30-130	20

QA/QC Data

SDG I.D.: GBJ14173

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 307520 (ug/L), QC Sample No: BJ14173 (BJ14173)

Pesticides

4,4'-DDD	ND	0.003	105						40-140	20
4,4'-DDE	ND	0.003	98						40-140	20
4,4'-DDT	ND	0.003	92						40-140	20
a-BHC	ND	0.005	97						40-140	20
a-Chlordane	ND	0.005	96						40-140	20
Atachlor	ND	0.005	NA						40-140	20
Aldrin	ND	0.002	76						40-140	20
b-BHC	ND	0.005	100						40-140	20
Chlordane	ND	0.050	96						40-140	20
d-BHC	ND	0.005	93						40-140	20
Dieldrin	ND	0.002	100						40-140	20
Endosulfan I	ND	0.005	98						40-140	20
Endosulfan II	ND	0.005	95						40-140	20
Endosulfan sulfate	ND	0.005	95						40-140	20
Endrin	ND	0.005	100						40-140	20
Endrin aldehyde	ND	0.005	116						40-140	20
g-BHC	ND	0.002	100						40-140	20
g-Chlordane	ND	0.005	96						40-140	20
Heptachlor	ND	0.005	96						40-140	20
Heptachlor epoxide	ND	0.005	98						40-140	20
Methoxychlor	ND	0.005	91						40-140	20
Toxaphene	ND	0.20	NA						40-140	20
% DCBP	63	%	63						40-150	20
% TCMX	72	%	92						40-150	20

Comment:

A LCS was performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS. No LCSD reported for this batch.

QA/QC Batch 307738 (ug/L), QC Sample No: BJ15252 10X (BJ14173)

Chlorinated Herbicides

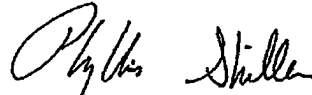
2,4,5-TP (Silvex)	ND	0.20	68	52	26.7				40-140	20	r
2,4-D	ND	0.20	87	70	21.7				40-140	20	r
% DCAA (Surrogate Rec)	46	%	60	51	16.2				30-150	20	

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

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
 May 15, 2015

Friday, May 16, 2015

Criteria: None

State: RI

Sample Criteria Exceedences Report

GBJ14173 - VEOLIA CRANS

Page 1 of 1

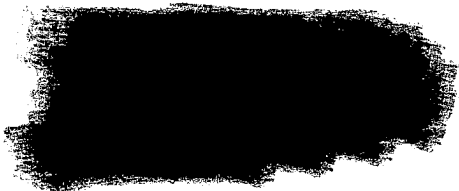
Sample No	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
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*** No Data to Display ***

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.



Thursday, May 14, 2015



Project ID: MONTHLY 503 CAKE
Sample ID#s: BJ14172

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 cursive script that reads "Phyllis Shiller".

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



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

Analysis Report

May 14, 2015

FOR: 

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIACRANS
 Rush Request: Standard
 P.O.#: 7756000503

Custody Information

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

Date

05/07/15

Time

15:49

Laboratory Data

SDG ID: GBJ14172
 Phoenix ID: BJ14172

Project ID: MONTHLY 503 CAKE
 Client ID: SEWAGE SLUDGE 24 HR COMP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.3	0.7	mg/Kg	1	05/11/15	LK	SW6010C
Beryllium	0.76	0.37	mg/Kg	1	06/11/15	LK	SW6010C
Cadmium	4.72	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Cobalt	3.83	0.37	mg/Kg	1	06/11/15	LK	SW6010C
Chromium	54.8	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Copper	602	3.7	mg/Kg	10	05/11/15	LK	SW6010C
Mercury	0.64	0.08	mg/kg	1	05/11/15	RS	SW7471B
Manganese	408	0.74	mg/Kg	10	05/11/15	LK	SW6010C
Molybdenum	6.51	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Nickel	32.3	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Lead	86.9	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Antimony	<3.7	3.7	mg/Kg	1	05/11/15	LK	SW6010C
Selenium	50.7	1.8	mg/Kg	1	05/11/15	LK	SW6010C
Vanadium	16.9	0.37	mg/Kg	1	05/11/15	LK	SW6010C
Zinc	863	3.7	mg/Kg	10	05/11/15	LK	SW6010C
Percent Solid	28.8	1	%				SW846-%Solid
Total Solids @ 104C	28.8	0.1	%	1	05/11/15	KH/CL	SM2540B-97
Chromium, Hex. (SW3060 digestion)	< 3.45	3.45	mg/Kg	1	05/09/15	KDB/CL	SW7196A
pH - Soil	5.47	0.10	pH Units	1	05/08/15 21:00	DH/KDB	SW9045
Redox Potential	130	1.0	mV	1	05/08/15	DH/KDB	SM2580B-09
Mercury Digestion	Completed				05/11/15	I/I	SW7471B
Total Metals Digest	Completed				05/08/15	CB/AG	SW3050B
Hexavalent Chromium Soil Digestion	Completed		mg/Kg		05/08/15		SW3060

Project ID: MONTHLY 503 CAKE
Client ID: SEWAGE SLUDGE 24 HR COMP

Phoenix I.D.: BJ14172

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

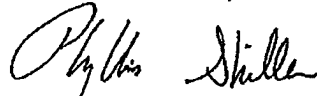
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

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

May 14, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report
 May 14, 2015

QA/QC Data

SDG I.D.: GBJ14172

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 307469 (mg/kg), QC Sample No: BJ12760 (BJ14172)													
<u>Chromium, Hexavalent (SW3060 digestion) - Sludge</u>													
Hexavalent Cr	BRL	0.40	<3.85	<3.85	NC	92.6						70 - 130	30
Insoluble Cr						92.8			31.5			70 - 130	30 m
Soluble Cr						89.7			0.30			70 - 130	30 m
QA/QC Batch 307322 (mg/kg), QC Sample No: BJ13007 (BJ14172)													
<u>ICP Metals - Soil</u>													
Antimony	BRL	3.3	<4.2	<4.6	NC	107	111	3.7	86.0	81.2	5.7	75 - 125	30
Arsenic	BRL	0.67	2.0	1.76	NC	95.4	105	9.6	99.0	98.4	0.6	75 - 125	30
Beryllium	BRL	0.27	<0.33	<0.37	NC	89.9	98.7	9.3	95.8	95.5	0.3	75 - 125	30
Cadmium	BRL	0.33	<0.42	<0.46	NC	102	103	1.0	94.1	93.8	0.3	75 - 125	30
Chromium	BRL	0.33	13.8	13.6	1.50	91.3	99.0	8.1	99.3	99.8	0.3	75 - 125	30
Copper	BRL	0.32	15.1	15.0	0.70	87.1	96.3	10.0	98.0	98.5	0.5	75 - 125	30
Lead	BRL	0.33	20.3	19.5	4.00	94.9	104	9.2	95.5	96.5	1.0	75 - 125	30
Nickel	BRL	0.33	10.8	11.2	3.60	92.1	98.3	6.5	95.4	95.3	0.1	75 - 125	30
Selenium	BRL	1.3	<1.7	<1.8	NC	92.5	106	13.6	90.6	90.4	0.2	75 - 125	30
Vanadium	BRL	0.33	19.6	19.8	1.00	93.7	98.9	5.4	98.9	101	2.1	75 - 125	30
Zinc	BRL	0.33	33.3	32.5	2.40	86.9	97.0	11.0	89.9	92.2	2.5	75 - 125	30
QA/QC Batch 307417 (mg/kg), QC Sample No: BJ14266 (BJ14172)													
Mercury - Soil	BRL	0.06	0.16	0.14	NC	112	101	10.3	109	132	19.1	70 - 130	30 m

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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



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QA/QC Report

May 14, 2015

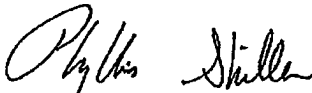
QA/QC Data

SDG I.D.: GBJ14172

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 307403 (PH), QC Sample No: BJ13953 (BJ14172)													
pH - Soil			8.15	8.14	0.10	99.3						85 - 115	20
QA/QC Batch 307473 (), QC Sample No: BJ14134 (BJ14172)													
Total Solids	BRL	0.1	21.1	20.6	2.40	100						85 - 115	30

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 Shillier, Laboratory Director
May 14, 2015

Thursday, May 14, 2015

Page 1 of 1

Sample Criteria Exceedences Report

Criteria: None

State: RI

GBJ14172 - VEOLIA CRANS

Sample No Acode Phoenix Analyte Criteria

Result

Criteria

RL

Analysis Units

*** 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.



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

Draft Progress Report

May 22, 2015

FOR: 

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIACRANS
 Rush Request: 48 Hour
 P.O.#: 7756000503

Custody Information

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

Date Time

05/18/15
 05/19/15 16:26

Laboratory Data

SDG ID: GBJ18570
 Phoenix ID: BJ18570

Project ID:
 Client ID: SEWAGE SLUDGE 24 HR COMP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	27.6	1	%				SW846-%Solid
Total Solids @ 104C	27.6	0.1	%	1	05/21/15	KH	SM2540B-97
Fixed Solids @ 500C	26.7	0.1	%	1	05/21/15	KH	E160.4
Ammonia as Nitrogen	1600	240	mg/Kg	1	05/21/15	WHM	E350.1
Nitrite as N	< 0.36	0.36	mg/kg	10	05/19/15	BS/EG	SW9056A
Nitrate as N	3.20	1.8	mg/kg	10	05/19/15	BS/EG	SW9056A
Organic Nitrogen	16900	94	mg/Kg	1	05/21/15	WHM	E350.1/E350.2
pH - Sludge	5.25	0.10	pH Units	1	05/19/15 20:10	DH/KDB	SW9045
Nitrogen Tot Kjeldahl	18500	470	mg/Kg	1	05/21/15	WHM	E351.1
Total Nitrogen	18500	0.05	mg/Kg	1	05/21/15	WHM	SM4500NH3/E300.0
Volatile Solids @ 500C	73.3	0.1	%	1	05/21/15	KH	SM2540E/E160.4-9
Sludge Ext. for PCB	Completed				05/20/15	M/M	SW3550C

Polychlorinated Biphenyls

PCB-1016	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1221	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1232	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1242	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1248	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1254	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1260	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1262	ND	350	ug/Kg	1	05/21/15	AW	SW8082A
PCB-1268	ND	350	ug/Kg	1	05/21/15	AW	SW8082A

QA/QC Surrogates

% DCBP	104		%	1	05/21/15	AW	30 - 150 %
% TCMX	76		%	1	05/21/15	AW	30 - 150 %

Project ID:

Phoenix I.D.: BJ18570

Client ID: SEWAGE SLUDGE 24 HR COMP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

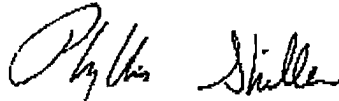
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-tir

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.

PLEASE NOTE: THIS PROGRESS REPORT IS CONSIDERED PRELIMINARY DATA. THE RESULTS ENTERED HAVE NOT BEEN EXAMINED BY OUR QA/QC DEPARTMENT.



Phyllis Shiller, Laboratory Director

May 22, 2015

Friday, May 22, 2015

Criteria: None

State: RI

Sample Criteria Exceedences Report

GBJ18570 - VEOLIACRANS

SampNo	Acode	Phoenix Analyte	Criteria	Result	R
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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 accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately to determine appropriate compliance.

149



Wednesday, July 08, 2015



Project ID: [Redacted]
Sample ID#s: BJ40246

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 cursive script that reads "Phyllis Shiller".

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



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0822



Analysis Report

July 08, 2015

FOR: 

Sample Information

Matrix: SLUDGE
 Location Code: PEPSI
 Rush Request: Standard
 P.O.#:


Custody Information

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

Date Time
 07/01/15 10:45
 07/01/15 16:45

Laboratory Data

SDG ID: GBJ40246
 Phoenix ID: BJ40246

Project ID: 
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.3	0.4	mg/Kg	1	07/02/15	EK	SW6010C
Beryllium	0.36	0.22	mg/Kg	1	07/02/15	EK	SW6010C
Cadmium	0.65	0.22	mg/Kg	1	07/02/15	EK	SW6010C
Chromium	8.30	0.22	mg/Kg	1	07/02/15	EK	SW6010C
Copper	387	2.2	mg/Kg	10	07/02/15	EK	SW6010C
Lead	14.1	0.22	mg/Kg	1	07/02/15	EK	SW6010C
Mercury	4.29	0.14	mg/kg	1	07/06/15	RS	SW7471B
Nickel	7.61	0.22	mg/Kg	1	07/02/15	EK	SW6010C
Selenium	< 1.1	1.1	mg/Kg	1	07/02/15	LK	SW6010C
Zinc	890	22	mg/Kg	100	07/07/15	EK	SW6010C
Percent Solid	5.08	1	%				SW846-%Solid
Total Solids @ 104C	5.08	0.1	%	1	07/02/15	KH/TM	SM2540B-97 B
Fixed Solids @ 500C	22.9	0.1	%	1	07/02/15	KH/TM	E160.4 1
Ammonia as Nitrogen	< 23.6	23.6	mg/Kg	1	07/06/15	WHM	E350.1 1
pH - Sludge	5.84	0.10	pH Units	1	07/01/15 20:30	DH/EG	SW9045 1
Volatile Solids @ 500C	77.1	0.1	%	1	07/02/15	KH/TM	SM2540E/E160.4-9 1
Mercury Digestion	Completed				07/06/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				07/02/15	M/M	SW3550C
Total Metals Digest	Completed				07/01/15	G/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1221	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1232	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1242	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1248	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1254	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1260	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
PCB-1268	ND	1900	ug/Kg	1	07/06/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	109		%	1	07/06/15	AW	30 - 150 %
% TCMX	85		%	1	07/06/15	AW	30 - 150 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

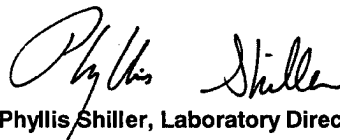
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

July 08, 2015

Reviewed and Released by: Deb Lawrie, 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

July 08, 2015

QA/QC Data

SDG I.D.: GBJ40246

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 312595 (mg/kg), QC Sample No: BJ40373 (BJ40246)													
ICP Metals - Soil													
Arsenic	BRL	0.67	7.0	7.26	3.60	94.7	99.6	5.0	97.7	98.7	1.0	75 - 125	30
Beryllium	BRL	0.27	<0.35	0.41	NC	96.0	103	7.0	98.9	100	1.1	75 - 125	30
Cadmium	BRL	0.33	<0.43	<0.42	NC	96.7	107	10.1	99.9	100	0.1	75 - 125	30
Chromium	BRL	0.33	11.7	13.7	15.7	99.3	109	9.3	102	102	0.0	75 - 125	30
Copper	BRL	0.33	38.3	44.2	14.3	98.4	107	8.4	107	107	0.0	75 - 125	30
Lead	BRL	0.33	762	872	13.5	93.8	103	9.3	119	112	6.1	75 - 125	30
Nickel	BRL	0.33	21.5	24.4	12.6	98.9	107	7.9	98.3	100	1.7	75 - 125	30
Selenium	BRL	1.3	<1.7	<1.7	NC	84.9	91.5	7.5	89.5	90.0	0.6	75 - 125	30
Zinc	BRL	0.33	118	164	32.6	93.5	104	10.6	99.0	99.9	0.9	75 - 125	30
QA/QC Batch 312774 (mg/kg), QC Sample No: BJ40704 (BJ40246)													
Mercury - Soil	BRL	0.06	0.04	0.04	NC	109	104	4.7	112	97.9	13.4	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

r = This parameter is outside laboratory rpd specified recovery limits.



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QA/QC Report

July 08, 2015

QA/QC Data

SDG I.D.: GBJ40246

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 312651 (), QC Sample No: BJ39863 (BJ40246)													
Total Solids	0.108	0.1	27.2	27.7	1.80	100						85 - 115	30
QA/QC Batch 312643 (PH), QC Sample No: BJ40141 (BJ40246)													
pH - Soil			5.64	5.58	1.10	98.4						85 - 115	20
QA/QC Batch 312662 (mg/L), QC Sample No: BJ40160 (BJ40246)													
Ammonia as Nitrogen	BRL	0.05	0.10	0.11	NC	108			101			85 - 115	20



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QA/QC Report

July 08, 2015

QA/QC Data

SDG I.D.: GBJ40246

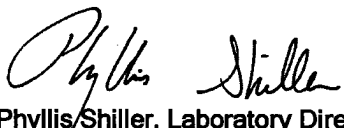
Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 312681 (ug/Kg), QC Sample No: BJ39863 (BJ40246)										
Polychlorinated Biphenyls - Sludge										
PCB-1016	ND	13	88						40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	99						40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	113	%	111						30 - 150	30
% TCMX (Surrogate Rec)	79	%	86						30 - 150	30

Comment:

No LCSD could be reported for this Batch.

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
 July 08, 2015

Wednesday, July 08, 2015

Criteria: None

State: NY

Sample Criteria Exceedences Report

GBJ40246 - PEPSI

Page 1 of 1

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

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



NY Temperature Narration

July 08, 2015

SDG I.D.: GBJ40246

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

CERTIFICATE OF ANALYSIS



Date Received: 11/18/15
Date Reported: 12/2/15
P.O. #:
Work Order #: 1511-25182

DESCRIPTION: WASTEWATER - SLUDGE CAKE METALS

Subject sample(s) has/have been analyzed by our Warwick, R.I. and our Hudson, MA. laboratories with the attached results.

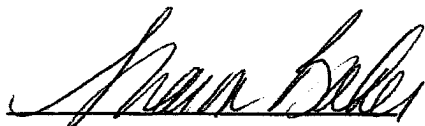
Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, M-MA1117

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Sharon Baker
Data Reporting / MIS Manager

enc: Chain of Custody

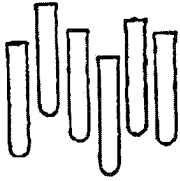
R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Veolia Water North America
Date Received: 11/18/15
Work Order #: 1511-25182

Sample # 001

SAMPLE DESCRIPTION: SLUDGE CAKE METALS 38229**SAMPLE TYPE:** COMPOSITE**SAMPLE DATE/TIME:** 11/18/2015

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
pH	6.0		SU	SW-846 9045C	11/20/15 18:00	JJG
Total fixed solids	33	0.5	%	SM2540E 18-21ed	11/24/15 10:30	TAH
Total Solids	24.2		%	SM2540G 18-21ed	11/30/15 14:30	DEB
Total Volatile Solids	67	0.5	%	SM2540E 18-21ed	11/24/15 10:30	TAH
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082A	11/24/15 21:18	CM
Surrogate			RANGE		11/24/15 21:18	CM
Tetrachloro-m-xylene (TCMX)	45		30-150%	SW-846 8082A	11/24/15 21:18	CM
Decachlorobiphenyl	35		30-150%	SW-846 8082A	11/24/15 21:18	CM
Extraction Date				SW-846 3546	11/23/15 14:07	RR2
Total Metals Analyzed by ICP						
Arsenic	<10	10	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Beryllium	<0.21	0.21	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Cadmium	1.4	1.0	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Chromium	23	6.2	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Copper	400	10	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Lead	59	8.3	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Mercury	0.57	0.39	mg/kg dry	SW-846 7471B	11/24/15 12:42	JRW
Nickel	17	4.2	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Selenium	<21	21	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
Zinc	940	8.3	mg/kg dry	SW-846 6010C	11/23/15 15:58	JRW
ICP Digestion	49.75			SW-846 3050B	11/20/15 18:16	CRC
Mercury Digestion				SW-846 7471B	11/24/15 9:41	RBR



SMITH LABORATORY

ENVIRONMENTAL TESTING
4 SCENIC DRIVE & RT. 9
HYDE PARK, NEW YORK 12538
(845) 229-8538

Dear Client:

Attached please find the Certificates of Analysis detailing the test results for your sample(s).

The information contained in this report is true and accurate to the best of our knowledge. Smith Laboratory makes no guarantee or warranty in respect to this report and assumes no liability in excess of the amount invoiced. If you have questions regarding its contents or if you require any further assistance, please do not hesitate to call. We look forward to serving you in the future.

Sincerely,

A handwritten signature in black ink, appearing to read 'Anne G. Smith'. The signature is fluid and cursive.

Anne G. Smith
Laboratory Director



Benchmark Analytics Sayre, A Microbac Laboratory

CERTIFICATE OF ANALYSIS

S5D0664

Smith Laboratories

Project Name: City of [REDACTED]

Anne Smith
4 Scenic Drive
Hyde Park, NY 12538

Project / PO Number: N/A
Received: 04/08/2015 13:00
Reported: 04/28/2015 11:43

Analytical Testing Parameters

Client Sample ID: 232945-Export Biosolids
Lab Sample ID: S5D0664-01
Sample Type: Composite

Start Date: 04/02/15
Start Time: 06:00

Collected By: MC
Collection Date: 04/02/15
Collection Time: 18:00

General Parameters	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 9045C pH	5.92		0.0100	pH Units		04/13/15 1037	04/13/15 1037	SRS
Method: SM4500 H+ B-2000 Temperature	20.4			°C		04/13/15 1037	04/13/15 1037	SRS

Inorganics	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: SM2540 G-1997 Percent Solids	5.85			% by Weight	N	04/13/15 1700	04/14/15 0900	ICC
Total Volatile Solids (TVS)	81.8		0.100	%		04/13/15 1700	04/15/15 1700	ICC

Microbac Laboratories, Inc. - Ohio Valley

Mercury	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: SW7471B Mercury, Total	0.485	0.167	4.18	mg/kg DRY	J	04/16/15 0715	04/17/15 1502	PDM

Metals by 8010	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: SW6010C Arsenic, Total	<7.28	7.28	14.6	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH
Beryllium, Total	<0.728	0.728	1.46	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH
Cadmium, Total	1.08	0.728	1.46	mg/kg DRY	J	04/14/15 1056	04/15/15 1159	JYH
Chromium, Total	29.2	1.82	3.64	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH
Copper, Total	466	7.28	14.6	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH
Lead, Total	50.0	7.28	14.6	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH
Nickel, Total	21.7	14.6	29.1	mg/kg DRY	J	04/14/15 1056	04/15/15 1159	JYH
Selenium, Total	7.68	7.28	14.6	mg/kg DRY	J	04/14/15 1056	04/15/15 1159	JYH
Zinc, Total	528	7.28	14.6	mg/kg DRY		04/14/15 1056	04/15/15 1159	JYH

PCB SOLID	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: SW8082 Aroclor-1016	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1221	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1232	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1242	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1248	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1254	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Aroclor-1260	<228	228	456	ug/kg DRY		04/15/15 1036	04/15/15 1719	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-Xylene	13.5			Limit: 29-133 % Rec	-	04/15/15 1036	04/15/15 1719	ECL
Surrogate: Decachlorobiphenyl	3.64			Limit: 60-125 % Rec	-	04/15/15 1036	04/15/15 1719	ECL

Microbac Laboratories, Inc.

2566 Pennsylvania Ave | Sayre, PA 16840 | 570-888-0169 p | www.microbac.com

Page 4 of 3



Benchmark Analytics Sayre, A Microbac Laboratory

CERTIFICATE OF ANALYSIS

S5D0664

Analytical Testing Parameters

Client Sample ID: 232945-Export Biosolids
 Lab Sample ID: S5D0664-01
 Sample Type: Composite

Start Date: 04/02/15
 Start Time: 06:00

Collected By: MC
 Collection Date: 04/02/15
 Collection Time: 18:00

Percent Solids	Result	MDL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: D2216 Percent Solids	5.64	1.00	1.00	weight %			04/15/15 0722	JJS

Definitions

+: Surrogate or spike compound out of range
 H: Sample was analyzed past holding time.
 J: The analyte was positively identified, but the quantitation was below the RL
 MDL: Minimum Detection Limit
 PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	6.0 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Project Requested Certification(s):

Microbac Laboratories, Inc. - Ohio Valley
 VA ID: 460187, Cert: 6338
 DEP ID: 68-01670, Cert No.: 010
 NY Lab ID No.: 10861, Serial No.: 50396

Virginia
 State of Pennsylvania (NELAC)
 New York State Department of Health

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Tracy Cole
 Department Manager
 04/28/2015 11:43

Go Green: Contact Tracy Cole to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Tracy Cole listed above at Tracy.Cole@microbac.com or 670-888-0169. You may also contact Trevor Boyce President, at president@microbac.com.

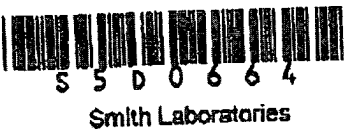
Microbac Laboratories, Inc.

2588 Pennsylvania Ave | Sayre, PA 18840 | 570-888-0169 p | www.microbac.com

Page 2 of 3

PAGE 1 OF 1

Benchmark Analytics
 2566 Pennsylvania Avenue • Sayre, PA 18840
 Phone: (570) 889-0169
 Fax: (570) 888-0717



CHAIN OF CUSTODY

REPORT TO: **SMITH LABORATORY**
 4 Soenic Drive
 Hydra Park, NY 12538

CONTACT: **Danie DiNobile**
 PH# (845) 229-6536
 FAX#

BILL TO:

PROJECT DESCRIPTION:

SAMPLER SIGNATURE / AFFILIATION:
Mark Crisp

Container Sample Point No./Type

REFRIGERATE SAMPLES AFTER COLLECTION

TRANSPORT TO LABORATORY IN COOLER WITH ICE

RESULTS ARE BEING USED FOR:

NYDOH	NYDEC	RADEF
LANDFILL		

ARE SPECIAL DETECTION LIMITS NEEDED: YES / **NO**

IF YES, PLEASE ATTACH IS A OC PACKAGE NEEDED? YES / **NO**

IF YES, PLEASE ATTACH REQUIREMENTS

PWS ID# _____
 Location _____
 Sample Point _____

DATE SAMPLED: 4/7/15

TIME OF SAMPLING: 11:00 AM

SAMPLE MATRIX: SL

SAMPLE TYPE - GRAB / COMPOSITE: C

SAMPLER INITIALS: -

PRESERVATIVE: Chlorine Residual Total Free

An incomplete chain of custody may delay the processing of your sample(s).

ANALYSIS TO BE PERFORMED (PER CONTAINER):

CONTAINER NO.	ANALYSIS TO BE PERFORMED (PER CONTAINER)	DATE SAMPLED	TIME OF SAMPLING	SAMPLE MATRIX	SAMPLE TYPE - GRAB / COMPOSITE	SAMPLER INITIALS	PRESERVATIVE
1	% TS, % VS Polychlorinated biphenyls As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn pH	4/7/15	11:00 AM	SL	C	-	<input type="checkbox"/> Chlorine Residual <input type="checkbox"/> Total Free
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

DELIVERED BY: **VDS**

TEMPERATURE UPON RECEIPT: **6.0** °C ARRIVAL ON ICE: **YIN**

RELINQUISHED BY: J. Smith	RECEIVED BY: (YES)	DATE: 4/7/15	DATE: 4/7/15	TIME: 5pm	TIME: 11:00
RELINQUISHED BY:	RECEIVED BY: J. DiNobile	DATE: / /	DATE: / /	TIME: / /	TIME: 11:00
RELINQUISHED BY:	RECEIVED BY:	DATE: / /	DATE: / /	TIME: / /	TIME: / /

AT Smith's Printing 570-885-0885

CHAIN OF CUSTODY

SMITH LABORATORY

4 Scenic Drive
Hyde Park, NY 12538-1313
Phone: 845-229-6536
Fax: 845-229-6538

Turnaround Time: Standard
RUSH (Rush surcharge applies)
** Date report requested: _____

Copy results to
Local Health Dept:
Yes No

Client Name: Yeollia

Mailing Address: _____

Client Phone No: 845-471-8165

Client Fax No.: 845-471-5498

Copy Report To: _____

Project/Facility Name: _____

Location: _____

PWS Fed ID No: NY-

LAB USE ONLY

LAB USE ONLY

CLIENT: COMPLETE THE SAMPLE INFORMATION IN THE SPACE PROVIDED BELOW

Sample Identification & Sample Point	Matrix	(Check One)			Treatment Type & Residual	Date/Time Sampled	Analysis Requested	Container & Preservative
		Grab	Comp # hrs	First Draw				
Export biosolids # 12502	liquid biosolids		12	4:15	4-2-15 1800	%TS %VS	1L glass	
						Polychlorinated biphenyls		
						As Be Cd Cr Cu Pb Hg Ni Se Zn		
						pH		

Sampled By: (Name) Mike Gage (Title) QC I hereby affirm that the information above is true and complete to the best of my knowledge. I also affirm that I am responsible for payment, unless other payment arrangements are approved in advance by Smith Laboratory

Sample Relinquished By: David Steward Received By: Denise Steward Date: 4/3/15 Time: 3:19

Sample Relinquished By: _____ Received at Lab By: _____ Date: _____ Time: _____

Comments: _____ Test Data Reviewer: MEJ Date: 8/1/17

TUNXIS Laboratories, LLC

100 Northwest Drive, Plainville, Connecticut 06062

(860) 793-8866

Fax: (860) 793-8867

Alan G. Jacobs - Director

CT Laboratory ID No. PH-0513

M60

~~4-9-15~~

REPORT ON LABORATORY EXAMINATIONS

To Client



Report No: TL1522539.0

Report Date: Thursday, May 07, 2015

ATTN: Joe Alosso

Collected By:



Source: Water Pollution Control Facility

Sample Matrix: Waste

Sample ID: Sludge Sample collected 4/8-9/15


Collect Date: 4/9/2015

Lab#: 15001864

Received Date: 4/9/2015

Test	Result	Units	Analyst	Analysis Date	Analysis Method
Total Solids, %	6.7	%	MAP	4/20/2015	SM 2540G
pH	5.7	Units	JF	4/20/2015	SW-846 9045D
Total Volatile Solids	81.2	%	MAP	4/20/2015	EPA 160.4
Total Fixed Solids	18.8	%	MAP	4/20/2015	EPA 160.4
Mercury	0.309	mg/kg	JM	4/10/2015	SW-846 7471A
Arsenic	3.02	mg/kg	JM	4/16/2015	SW-846 6010C
Beryllium	<0.189	mg/kg	JM	4/16/2015	SW-846 6010C
Cadmium	2.73	mg/kg	JM	4/16/2015	SW-846 6010C
Chromium, Total	27.2	mg/kg	JM	4/16/2015	SW-846 6010C
Copper	418	mg/kg	JM	4/16/2015	SW-846 6010C
Nickel	17.1	mg/kg	JM	4/16/2015	SW-846 6010C
Lead	13.1	mg/kg	JM	4/16/2015	SW-846 6010C
Zinc	314	mg/kg	JM	4/16/2015	SW-846 6010C
Aroclor 1260	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1016	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1221	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1232	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1242	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1248	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A
Aroclor 1254	<2.00	mg/kg	LWA	4/14/2015	SW-846 8082A

The results recorded in this report relate only to the samples as received on the date and time noted.



(MAP)



~~6-2015~~

Report Date..... 29-Jun-15
 EML Project ID..... 150612-SAL-C
 Your Project ID..... Semi-Annual Sludge
 Date Sampled..... 11-Jun to 12-Jun-15
 Date Submitted..... 12-Jun-15

[Redacted]

Attn: Mr. John Whalen

Amended Report

ND = Not Detected.

Parameter	Results	Method	Det. Limit	Units	Completed	
					Date	Time
Ammonia as N	25674.	SM 4500-NH ₃	<1	mg/Kg	23-Jun-15	1500
Total Organic Nitrogen	99035.	SM 4500-Norg	<1	mg/Kg	23-Jun-15	1500
Nitrate as N	794.7	SM 4500-NO ₃	<1	mg/Kg	12-Jun-15	1650
Nitrite as N	70.2	SM 4500-NO ₃	<1	mg/Kg	12-Jun-15	1605
Total Nitrogen	125574.		<1	mg/Kg	23-Jun-15	1500
pH	6.5	SW846 9045C	—	S.U.	12-Jun-15	1700
Total Solids	0.57	SM 2540G	—	% w/w	15-Jun-15	0900
Fixed Solids	20.26	SM 2540G	—	% w/w	16-Jun-15	0900
Volatile Solids	79.74	SM 2540G	—	% w/w	16-Jun-15	0900
Arsenic	0.39	SW846 7060A	<0.2	mg/Kg	23-Jun-15	1116
Beryllium	ND	SW846 6010B	<0.2	mg/Kg	16-Jun-15	0017
Cadmium	1.26	SW846 6010B	<0.1	mg/Kg	16-Jun-15	0017
Chromium	34.03	SW846 6010B	<0.2	mg/Kg	16-Jun-15	0017
Copper	493.	SW846 6010B	<0.2	mg/Kg	16-Jun-15	0017
Lead	55.20	SW846 6010B	<0.5	mg/Kg	16-Jun-15	0017
Mercury	1.81	SW846 7471A	<0.02	mg/Kg	15-Jun-15	1700
Nickel	14.87	SW846 6010B	<0.2	mg/Kg	16-Jun-15	0017
Selenium	1.69	SW846 7740	<0.2	mg/Kg	26-Jun-15	1633
Zinc	502.	SW846 6010B	<0.2	mg/Kg	16-Jun-15	0017
Polychlorinated biphenyls* (PCBs)	ND	SW846 8082	<1	mg/Kg	19-Jun-15	2351

* Any or sum of USEPA-regulated Aroclor

Technical Reviewer:

[Signature]

Title:

Transcript Reviewer:

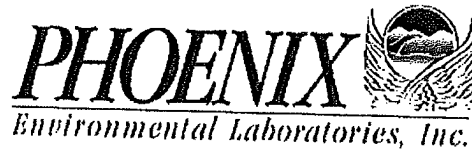
[Signature]

Title:



ENVIRONMENTAL MONITORING LABORATORY, INC.

M61



Wednesday, January 14, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BH61015

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.

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 cursive script that reads "Phyllis Shiller".

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



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

Analysis Report
 January 14, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: WASTE WATER
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 2015-1-3

Custody Information

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

Date Time
 01/07/15 0:00
 01/08/15 13:41

Laboratory Data

SDG ID: GBH61015
 Phoenix ID: BH61015

Project ID: NAUGATUCK
 Client ID: WASTEWATER

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	< 0.004	0.004	mg/L	01/09/15	LK	E200.7
Beryllium	< 0.001	0.001	mg/L	01/09/15	LK	E200.7
Cadmium	0.001	0.001	mg/L	01/09/15	LK	E200.7
Chromium	0.111	0.001	mg/L	01/09/15	LK	E200.7
Copper	0.323	0.005	mg/L	01/09/15	LK	E200.7
Mercury	< 0.0002	0.0002	mg/L	01/12/15	RS	245.1
Nickel	0.040	0.001	mg/L	01/09/15	LK	E200.7
Lead	0.015	0.002	mg/L	01/09/15	LK	E200.7
Selenium	< 0.010	0.010	mg/L	01/09/15	LK	E200.7
Zinc	1.07	0.002	mg/L	01/09/15	LK	E200.7
Fixed Solids	970	10	mg/L	01/12/15	KH	S208d/E160.4
pH	7.93	0.10	pH Units	01/09/15 05:30	RWR/KDB4500-H B/9040	
Total Solids	1200	20	mg/L	01/12/15	KH	SM2540B
Volatile Solids	240	20	mg/L	01/12/15	KH	S2540E/E160.4
Mercury Digestion	Completed			01/12/15	VI	245.1
PCB Extraction	Completed			01/08/15	L	SW3510C
Total Metals Digestion	Completed			01/08/15	T	

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1221	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1232	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1242	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1248	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1254	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1260	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1262	ND	0.50	ug/L	01/09/15	AW	E608
PCB-1268	ND	0.50	ug/L	01/09/15	AW	E608

Project ID: NAUGATUCK
Client ID: WASTEWATER

Phoenix I.D.: BH61015

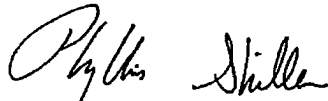
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% DCBP	72		%	01/09/15	AW	30 - 150 %
% TCMX	74		%	01/09/15	AW	30 - 150 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

January 14, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report
 January 14, 2015

QA/QC Data

SDG I.D.: GBH61015

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 296647, QC Sample No: BH57822 (BH61015)												
<u>ICP Metals - Aqueous</u>												
Arsenic	BRL	<0.004	<0.004	NC	106	104	1.9	116	117	0.9	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	100	99.8	0.2	107	106	0.9	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	106	104	1.9	108	109	0.9	75 - 125	20
Chromium	BRL	0.002	0.002	NC	104	103	1.0	104	105	1.0	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	103	102	1.0	102	100	2.0	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	103	101	2.0	102	103	1.0	75 - 125	20
Nickel	BRL	0.001	0.001	NC	102	99.5	2.5	101	102	1.0	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	103	100	3.0	111	113	1.8	75 - 125	20
Zinc	BRL	0.002	0.003	NC	104	102	1.9	108	109	0.9	75 - 125	20

QA/QC Batch 296788, QC Sample No: BH61027 (BH61015)

Mercury - Water	BRL	<0.0002	<0.0002	NC	116	105	10.0	100	97.9	2.1	70 - 130	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.



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QA/QC Report
January 14, 2015

QA/QC Data

SDG I.D.: GBH61015

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 296713, QC Sample No: BH61099 (BH61015)												
pH		8.08	8.01	0.90	96.0						85 - 115	20



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QA/QC Report
 January 14, 2015

QA/QC Data

SDG I.D.: GBH61015

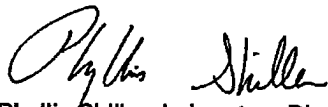
Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 296652, QC Sample No: BH61027 (BH61015)									
<u>Polychlorinated Biphenyls - Waste Water</u>									
PCB-1016	ND	95	93	2.1				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	86	83	3.6				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	89	70	66	5.9				30 - 150	20
% TCMX (Surrogate Rec)	85	80	79	1.3				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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
 January 14, 2015

Sample Criteria Exceedences Report

Criteria: None

GBH61015 - VEOLIANA

State: CT

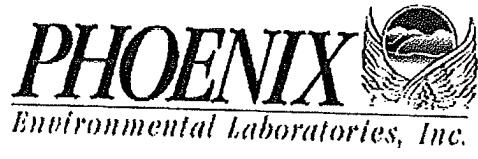
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

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.



~~SECRET~~ M50
Salem, PA



Friday, June 05, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ24694

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,

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



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

Analysis Report
 June 05, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

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

Date Time
 06/02/15
 06/02/15 16:06

Laboratory Data

SDG ID: GBJ24694
 Phoenix ID: BJ24694

Project ID: NAUGATUCK
 Client ID: SLUDGE [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Selenium	< 7.5	7.5	mg/Kg	1	06/04/15	EK	SW6010C
Total Solids @ 104C	6.99	0.1	%	1	06/03/15	KH	SM2540B-97
pH - Sludge	4.84	0.10	pH Units	1	06/02/15 21:00	DH/KDB	SW9045
Total Metals Digest	Completed				06/02/15	NI/AG	SW3050B

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

June 05, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 05, 2015

QA/QC Data

SDG I.D.: GBJ24694

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 309543 (mg/kg), QC Sample No: BJ20028 (BJ24694)													
<u>ICP Metals - Soil</u>													
Selenium	BRL	1.3	<1.5	<1.4	NC	86.3	85.3	1.2	81.5	80.9	0.7	75 - 125	30



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

QA/QC Report

June 05, 2015

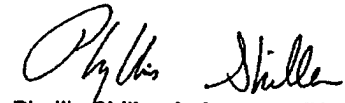
QA/QC Data

SDG I.D.: GBJ24694

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 309636 (), QC Sample No: BJ23819 (BJ24694)													
Total Solids	BRL	0.1	25.7	25.7	0	100						85 - 115	30
QA/QC Batch 309640 (PH), QC Sample No: BJ24859 (BJ24694)													
pH - Soil			9.28	9.42	1.50	98.6						85 - 115	20

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
 June 05, 2015

Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ24694 - VEOLIANA

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.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK ICE No
 Temp 3 °C Pg of

Date Delivery: Fax #:

Email: tom.deller@veolia.com

Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to:
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Project P.O.

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [Signature] Date: 6-2-15
 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

Analysis Request	Salmonella	PH
GL VOA Vale [methanol] 1 H2O		
GL soil container (8) oz		
GL Amber 100ml X 1 As Is [HCl]	X	
PL As Is [250ml] X 1 As Is [HCl]		
PL H2SO4 [X] 250ml [500ml] 1000ml		
PL HNO3 250ml		
Bacteria Bottle		

PHOENIX USE ONLY SAMPLE # 21004
 Customer Sample Identification: Sludge
 Date Sampled: 6/2/15
 Time Sampled: N/A

Requisitioned by: [Signature] Accepted by: [Signature]
 Date: 6-2-15 Time: 9:30
 Turnaround: 1 Day*
 Comments, Special Requirements or Regulations: Planville
 * SURCHARGE APPLIES

RI Direct Exposure (Residential) GW Other
 CT RCP Cart GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other
 MA MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other
 Data Format: Excel PDF GIS/Key EQ/S Other
 Data Package: Tier II Checklist Full Data Package* Phoenix Std Report Other
 State where samples were collected:
 * SURCHARGE APPLIES

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Data Delivery:
 Fax #:
 Email: tom.deller@veolia.com

Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: [Redacted]
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Client Sample - Information - Identification
 Sampler's Signature: *[Signature]* T. Deller Date: 6-2-15
 Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	Sludge	SL	6/2/15	N/A

Analysis Request	Soil VOA Vials (methanol) [H2O]	40 ml VOA Vial (8) oz	GL Amber 1000ml X 1.5L [HCl]	PL AS [250ml X 1.5L [HCl]	PL H2SO4 [X] 250ml [500ml]	PL NaOH 250ml	Bacteria Boile
Selenium PH							

This section MUST be completed with Bottle Quantities.

Relinquished by: *[Signature]* T. Deller Accepted by: *[Signature]* Date: 6-2-15 Time: 2:30

Comments, Special Requirements or Regulations:
 Planville

<input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Data Format <input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other
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* SURCHARGE APPLIES

State where samples were collected: _____

* SURCHARGE APPLIES