



Clark Estate Drinking Water Sampling Results

**Clark Estate, 172 Stage Road, South Pomfret, VT 05067
SMS Site # 2009-3994**

A Facility Owned By:

**Ms. Elizabeth Frederick
Trustee for the Estate of Harriet Clark
10 Highland Avenue
Woodstock, VT 05091**

Prepared for:

**Matt Moran
Hazardous Site Manager
VTDEC, Sites Management Section
1 National Life Drive- Davis 1
Montpelier, VT 05620-3704**

Prepared By:

**Harper Environmental Associates, Inc.
1811 Hale Hollow Road, Bridgewater Corners, VT 05035
(802) 672-6112 fax (802) 672-6227
Cliff Harper, PG, Principal**

April 16, 2015

1.0 Introduction

Harper Environmental Associates (HEA) is pleased to submit the results of a recent round of drinking water sampling for the presence of polychlorinated biphenyls (PCBs) and RCRA 8 metals at the Clark Property located at 172 Stage Road in South Pomfret, VT. This round of testing was undertaken as a condition prior to site closure and was requested by Ashley Desmond, VTDEC ANR Site Manager for this project.

1.1 Site Location

The site is located on the north side of Stage Road, approximately 700 feet west of the intersection at Library Street, in the town of South Pomfret, Vermont (Figure 1). The site is across the street from a ski area (Suicide Six); the area is otherwise residential with surrounding farmland

1.2 Sampling Source

Samples were collected from the kitchen tap on two separate occasions. The tap was operated for 20 minutes prior to sampling.

2.0 Results and Recommendations

A drinking water sample for RCRA 8 metal analysis was collected on April 6, 2015 in a 1000-mL unpreserved plastic bottle. Sample material for PCB analysis was collected on April 10, 2015 in a 1000-mL unpreserved glass bottle. Both samples were placed in an iced cooler for delivery to the analytical lab. The samples were sent to Phoenix Environmental Laboratories, Inc., via UPS overnight delivery. Samples were shipped on ice to maintain a temperature of 4-6°C.

2.1 Results

- All drinking water results were negative for PCBs. No exceedances for metals were detected. The sample results are attached to this report.

2.2 Recommended Action

We recommend closure of the site. The groundwater monitoring wells were previously removed under a request from Ashley Desmond.

Attachment: Drinking Water Sample Results; Phoenix Environmental Laboratories

Cc: Ms. Elizabeth Frederick, Trustee for the Estate of Harriet Clark

End of Report



Friday, April 10, 2015

Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Project ID: CLARK POMFRET
Sample ID#s: BH92755

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 black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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 10, 2015

FOR: Attn: Mr. Cliff Harper
 Harper Environmental Associates
 1811 Hale Hollow Rd
 Bridgewater Corners, VT 05035

Sample Information

Matrix: WATER
 Location Code: HARPER
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

04/06/15
 04/07/15

Time

14:00
 13:03

Laboratory Data

SDG ID: GBH92755
 Phoenix ID: BH92755

Project ID: CLARK POMFRET
 Client ID: S-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/09/15	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/09/15	EK	SW6010C/E200.7
Barium	0.007	0.002	mg/L	1	04/09/15	EK	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	04/09/15	EK	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	04/09/15	EK	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/09/15	RS	SW7470/245.1
Lead	< 0.002	0.002	mg/L	1	04/09/15	EK	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	04/09/15	EK	SW6010C/E200.7
Mercury Digestion	Completed				04/09/15	I/I	SW7470/245.1
Total Metals Digestion	Completed				04/07/15	AG	SW3050B

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

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 10, 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

April 10, 2015

QA/QC Data

SDG I.D.: GBH92755

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 303761 (mg/L), QC Sample No: BH92799 (BH92755)													
<u>ICP Metals - Aqueous</u>													
Arsenic	BRL	0.004	<0.004	<0.004	NC	105	104	1.0	108	111	2.7	75 - 125	20
Barium	BRL	0.002	0.008	0.008	NC	87.2	83.5	4.3	85.6	87.3	2.0	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	110	109	0.9	110	112	1.8	75 - 125	20
Chromium	BRL	0.001	0.001	<0.001	NC	97.3	96.2	1.1	96.9	99.5	2.6	75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	104	104	0.0	104	108	3.8	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	105	107	1.9	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	90.2	87.0	3.6	89.2	90.8	1.8	75 - 125	20

QA/QC Batch 303826 (mg/L), QC Sample No: BH93003 (BH92755)


Mercury - Water	BRL	0.0002		<0.0002		87.1	105	18.6				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%.

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 10, 2015

Sample Criteria Exceedences Report

GBH92755 - HARPER

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.

Cooler: Yes No
 Coolant: IPK ICE No
 Temp 22 °C Pg of

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



Customer: HAPEC ENV
 Address: PLYMOUTH VT

Project: CLACK PUMP/BET
 Report to: HEP
 Invoice to:

Contact Options:
 Fax:
 Phone:
 Email:

Project P.O.:

This section **MUST** be completed with **Bottle Quantities.**

Sampler's Signature	Date	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
<u>Jeff Hays</u>	<u>4/6/15</u>	<u>S-1</u>	<u>W</u>	<u>2</u>	<u>2</u>	Soil VOA Vial [methanol] 1 H2O
						40 ml VOA Vial [As is] HCl
						GL Soil container () oz
						GL VOA Vial [methanol] 1 H2O
						GL Soil container () oz
						GL Amber 100ml [As is] HCl
						PL As is [250ml] [As is] [H2SO4
						PL H2SO4 [250ml] [500ml] [1000ml
						PL HNO3 250ml
						PL NaOH 250ml
						Bacteria Bottle

Analysis Request: PCBS & METALS

Requisitioned by: Jeff Hays Accepted by: Chauhan

Date: 4/7/15 Time: 1303

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 Format: Excel PDF GIS/Key EQUIS Other

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

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

* SURCHARGE APPLIES

State where samples were collected: VT

Comments, Special Requirements or Regulations:
PCBS < .22 mg/l
*Tard 1000ul plastic cap



Tuesday, April 21, 2015

Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Project ID: CLARK POMFRET
Sample ID#s: BJ01848

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.

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
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MA Lab Registration #MA-CT-007
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VT Lab Registration #VT11301



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Analysis Report

April 21, 2015

FOR: Attn: Mr. Cliff Harper
 Harper Environmental Associates
 1811 Hale Hollow Rd
 Bridgewater Corners, VT 05035

Sample Information

Matrix: DRINKING WATER
 Location Code: HARPER
 Rush Request: 72 Hour
 P.O.#:

Custody Information

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

Date

04/10/15
 04/14/15

Time

9:00
 10:26

Laboratory Data

SDG ID: GBJ01848
 Phoenix ID: BJ01848

Project ID: CLARK POMFRET
 Client ID: DW-1

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Extraction of DW Pesticides	Completed						04/17/15	F/F	E508

PCB Screen

PCB-1016 (screen)	ND	0.080	1	ug/l	0.5		04/17/15	AW	E508
PCB-1221 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1232 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1242 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1248 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1254 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1260 (screen)	ND	0.10	1	ug/l	0.5		04/17/15	AW	E508
PCB-1262 (screen)	ND	0.10	1	ug/l			04/17/15	AW	E508
PCB-1268 (screen)	ND	0.10	1	ug/l			04/17/15	AW	E508

QA/QC Surrogates

%DCBP (Surrogate Rec)	120		1	%			04/17/15	AW	30 - 150 %
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Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected
 BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)
 MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

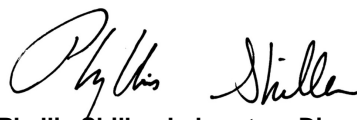
Comments:

Maximum Contaminant Level: 40 CFR Part 141. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary DW Maximum Contaminant Level Goal (MCLG): 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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

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Phyllis Shiller, Laboratory Director

April 21, 2015

Reviewed and Released by: Bobbi Aloisa, Vice President

Sample Criteria Exceedences Report

GBJ01848 - HARPER

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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Coolant: Yes No
 IPK ICE Pg of

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



Customer: HARPER ENVIRONMENTAL ASSOC
 Address: PLYMOUTH, VT

Project: CLARK COMFORT
 Report to: HEA
 Invoice to:

Contact Options:
 Fax:
 Phone:
 Email: Charper@Sover.net

This section **MUST** be completed with Bottle Quantities.

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
01848	DW-1	DW	4/10/15	9:00	Soil VOA Vials [methanol] H2O GL Soil container () oz 40 ml VOA Vial [As es] HCl GL Amber 100ml [As es] HCl PL H2SO4 [250ml] 1500ml PL HNO3 250ml Bacteria Bottle

Relinquished by: C. Sturitt Accepted by: [Signature]

Date: 4/14/15 Time: 10:12

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

Comments, Special Requirements or Regulations:
PCBs in DW, RL 20.5 ppb
2-day turnaround

RI Direct Exposure (Residential)
 GW
 Other

CI 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 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: VT