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ANALYTICAL SUMMARY REPORT

June 29, 2013

SD DENR

2050 West Main Ste 1

Rapid City, SD 57702

Workorder No.: R13060032

Project Name: Powertech

Energy Laboratories Inc. Rapid City SD received the following 5 samples for SD DENR on 6/3/2013 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R13060032-001	DC-2	06/03/13 10:05	06/03/13	Aqueous	Field Parameters Radon 222
R13060032-002	BC-4	06/03/13 11:25	06/03/13	Aqueous	Radon 222
R13060032-003	BC-3	06/03/13 11:40	06/03/13	Aqueous	Field Parameters Radon 222
R13060032-004	BC-1	06/03/13 12:35	06/03/13	Aqueous	Same As Above
R13060032-005	BC-2	06/03/13 14:05	06/03/13	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

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LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: SD DENR

Project: Powertech

Lab ID: R13060032-001

Client Sample ID: DC-2

Report Date: 06/29/13

Collection Date: 06/03/13 10:05

Date Received: 06/03/13

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222	1450	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 precision (±)	139	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 MDC	202	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
FIELD PARAMETERS								
Water Temperature, C	10.6	deg C		0.1		1	FIELD	06/03/13 00:00/jmh
pH, s_u_	7.4	s.u.		0.1		1	FIELD	06/03/13 00:00/jmh
Conductivity	5.54	umho/cm		1		1	FIELD	06/03/13 00:00/jmh

Report Definitions:	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	MDC - Minimum detectable concentration	

LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: SD DENR
Project: Powertech
Lab ID: R13060032-002
Client Sample ID: BC-4

Report Date: 06/29/13
Collection Date: 06/03/13 11:25
Date Received: 06/03/13
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222	87.8	pCi/L	U			1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 precision (±)	120	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 MDC	200	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca

Report Definitions:	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	MDC - Minimum detectable concentration	U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: SD DENR
Project: Powertech
Lab ID: R13060032-003
Client Sample ID: BC-3

Report Date: 06/29/13
Collection Date: 06/03/13 11:40
Date Received: 06/03/13
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222	1700	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 precision (±)	141	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 MDC	199	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
FIELD PARAMETERS								
Water Temperature, C	9.2	deg C		0.1		1	FIELD	06/03/13 00:00/jmh
pH, s_u_	7.3	s.u.		0.1		1	FIELD	06/03/13 00:00/jmh
Conductivity	3.25	umho/cm		1		1	FIELD	06/03/13 00:00/jmh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: SD DENR

Project: Powertech

Lab ID: R13060032-004

Client Sample ID: BC-1

Report Date: 06/29/13

Collection Date: 06/03/13 12:35

Date Received: 06/03/13

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222	2210	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 precision (±)	146	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 MDC	198	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
FIELD PARAMETERS								
Water Temperature, C	10.9	deg C		0.1		1	FIELD	06/03/13 00:00/jmh
pH, s_u_	7.2	s.u.		0.1		1	FIELD	06/03/13 00:00/jmh
Conductivity	3.73	umho/cm		1		1	FIELD	06/03/13 00:00/jmh

Report Definitions:	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	MDC - Minimum detectable concentration	

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LABORATORY ANALYTICAL REPORT
Prepared by Rapid City, SD Branch

Client: SD DENR
Project: Powertech
Lab ID: R13060032-005
Client Sample ID: BC-2

Report Date: 06/29/13
Collection Date: 06/03/13 14:05
Date Received: 06/03/13
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222	2670	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 precision (±)	150	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
Radon 222 MDC	196	pCi/L				1	D5072-92	06/05/13 16:22/eli-ca
FIELD PARAMETERS								
Water Temperature, C	9.9	deg C		0.1		1	FIELD	06/03/13 00:00/jmh
pH, s_u_	7.3	s.u.		0.1		1	FIELD	06/03/13 00:00/jmh
Conductivity	3.93	umho/cm		1		1	FIELD	06/03/13 00:00/jmh

Report Definitions:	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	MDC - Minimum detectable concentration	

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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: SD DENR **Report Date:** 06/29/13
Project: Powertech **Work Order:** R13060032

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92									Batch: C_R174568	
Sample ID: C13060103-002GDUP	3	Sample Duplicate				Run: SUB-C174568			06/05/13 16:22	
Radon 222		326	pCi/L					15	20	
Radon 222 precision (±)		120	pCi/L							
Radon 222 MDC		194	pCi/L							
Sample ID: R13060032-005A	3	Sample Duplicate				Run: SUB-C174568			06/05/13 16:22	
Radon 222		2650	pCi/L					0.8	20	
Radon 222 precision (±)		150	pCi/L							
Radon 222 MDC		196	pCi/L							
Sample ID: C13060150-009FDUP	3	Sample Duplicate				Run: SUB-C174568			06/05/13 16:22	
Radon 222		512	pCi/L					7.6	20	
Radon 222 precision (±)		106	pCi/L							
Radon 222 MDC		166	pCi/L							
Sample ID: MB-R174568	3	Method Blank				Run: SUB-C174568			06/05/13 16:22	
Radon 222		30	pCi/L							U
Radon 222 precision (±)		80	pCi/L							
Radon 222 MDC		100	pCi/L							
Sample ID: LCS-R174568		Laboratory Control Sample				Run: SUB-C174568			06/05/13 16:22	
Radon 222		459	pCi/L		83	80	120			

Qualifiers:

RL - Analyte reporting limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration

ENERGY

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CHAIN OF CUSTODY RECORD

SO-DENR
POULTRY

Signature: *[signature]*
Print: MARK HENNIHAN

FOR LAB USE ONLY

PRESERVED WITH: NB
FILTERED (Y/N): N
REFRIGERATED (Y/N): X

STANDARD _____ RUSH _____

R1306032-

#	Sample	Date	Time	Analyses Requested	Refrig	Data
1						
2	DC-2	6/3/13	1005	2		7.4 pH 10.6°C 5.54 µS EC 00?
3	BC-4	"	1125	2	X	NONE COLLECTED
4	BC-3	"	1140	2	X X	7.3 pH 9.2°C 3.25 µS EC 00?
5	BC-1	"	1235	2	X	7.2 pH 10.9°C 3.72 µS EC 00?
6	BC-2	"	1405	2	X	7.3 pH 9.9°C 3.93 µS EC 00?
7						
8						
9						
10						
11						
12						

[signature] SO-DENR 6/3/13 1635 *[signature]* Linda for ELI 6/3/13 1635

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