



July 18, 2012

Mr. Brandon Bruns
Petroleum Development Corporation
1775 Sherman Street, Suite 3000
Denver, Colorado 80203

Beneficial Reuse Area #429629

**RE: Baseline Sampling Results
PDC Mud Spread Fields
Easton #2 Property
NW Sec 12 T4N R65W 6th PM
Weld County, Colorado**

Dear Mr. Bruns:

LT Environmental, Inc. (LTE) conducted baseline soil sampling and percolation testing at the Easton #2 Property (Site) located in Weld County, Colorado (Figure 1). The purpose of this sampling and analysis is to document baseline conditions before PDC Energy, Inc. (PDC) incorporates drilling fluid into the native soil as a beneficial amendment at the Site.

Baseline Soil Sampling (Organics/Inorganics)

The National Resource Conservation Service (NRCS) reports indicate the first three to six inches of soil at the Site are characterized as Nelson fine sandy loam. The table below lists the number of aliquots that were collected from the Site on July 2, 2012.

Soil Type	Number of Aliquots
Nelson fine sandy loam	1

The individual aliquots were composited vertically from ground surface to 18 inches using a hand auger. Eight soil samples were collected from the Site (SS01 through SS08) and transferred into laboratory prepared 4-ounce, wide mouth, glass jars (Figure 2). Soil sample locations are presented on Figure 2. The soil samples were placed on ice and delivered with a completed chain-of-custody form to Summit Scientific Laboratory, Inc. of Golden, Colorado (Summit). Soil samples SS02, SS03, SS06, and SS07 were submitted for the following analyses:



Analyte	Method
Benzene, toluene, ethylbenzene, and total xylenes (BTEX)	EPA Method 8260B
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO)	EPA Method 8260B
TPH – Diesel Range Organics (DRO)	EPA modified Method 8015
Semi-volatile Organic Compounds (SVOC)	EPA Method 8270D SIM
Electrical Conductivity (EC)	USDA Agriculture Handbook Saturated Paste Method
Sodium Adsorption Ratio (SAR)	USDA Agriculture Handbook Saturated Paste Method
pH	USDA Agriculture Handbook Saturated Paste Method
Arsenic	EPA Method 6020B
Barium	EPA Method 6010B
Cadmium	EPA Method 6010B
Chromium (III)	Calculated
Chromium (VI)	EPA Method 6010B CR6
Copper	EPA Method 6010B
Lead (inorganic)	EPA Method 6010B
Mercury	EPA Method 7471A
Nickel (soluble salts)	EPA Method 6010B
Selenium	EPA Method 6010B
Silver	EPA Method 6010B
Zinc	EPA Method 6010B

Laboratory results indicate the BTEX, total TPH, SVOC, EC, pH, and SAR concentrations for each of the soil samples collected were in compliance with the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 concentration levels.

Concentrations of metals in the soil samples, with the exception of arsenic, were in compliance with COGCC Table 910-1 levels. Laboratory results confirmed arsenic exceeded the COGCC Table 910-1 level in each of the soil samples. Elevated arsenic concentrations are not uncommon, as background concentrations for Colorado have been observed to range from 0.3 to 26 parts per million (ppm) (*Severson, R. C., and Tourlet, H. A., 1994, Assessment of Geochemical Variability and a Listing of Geotechnical Data for Surface Soils of the Front Range Urban Corridor: U.S. Geological Survey Open-File Report 94-648*). The arsenic concentrations detected at the Site appear to be representative of background concentrations observed in the regional soils.

The analytical results for the soil samples are summarized in Table 1. The laboratory analytical report is included in Attachment 1.



Potential Receptors

LTE has examined potential water receptors within approximately one quarter mile of the Site. Potential surface water receptors include Gilmore Ditch that lies approximately 40 feet north of the northern boundary of the Site. Potential groundwater receptors include a domestic well (permit #149610) 435 feet to the east, a domestic well (permit #171792) 730 feet to the east, a domestic well (permit #47263) 805 feet to the northwest, and a geothermal well (permit #88-GX) 1,025 feet to the south.

Soil Classification and Percolation Testing

LTE collected representative soil samples from the soil type (Nelson fine sandy loam) at the Site. One soil sample (SS03) was submitted for soil classification to Weld Laboratories, Inc. of Greeley, Colorado.

LTE also performed two percolation tests at the Site on July 2, 2012. The tests were performed by hand augering an 18-inch deep borings at the Site then pre-soaking the borings by maintaining a high water level. The actual percolation tests were conducted following the initial pre-soak. Once the water had percolated into the borings, LTE initiated the test by filling the borings to a specific level and installing a pressure transducer equipped with a data logger to measure the drop in water level as it percolated over a sufficient period of time.

Soil Classification and Percolation Testing Results

Laboratory results indicate the sample composited from the upper 18-inches of the Nelson fine sandy loam contains 17.1% silt and clay. The remaining 82.9% is composed of sand and organic matter. The Nelson fine sandy loam sample (SS03) was classified as a loamy sand by the laboratory.

Based on the results from the soil classification analyses, 9.1% of the soils across the Site are clay. The addition of bentonite-based drilling mud to the upper 18-inches of soil at the Site will increase the percentage of expansive clay material in the soil. Due to this increase, LTE recommends PDC conduct oversight of drilling mud application and incorporation activities to ensure soil structure, surface drainage, and infiltration is sufficient for future agricultural activities. Soil classification laboratory results are included in Attachment 2.

LTE generated Site-specific hydraulic conductivity data for the upper 18-inches of soil at the Site from percolation tests. The hydraulic conductivity for the upper soils at the Site is estimated to be between 1.00×10^{-4} and 1.13×10^{-4} centimeters per second (cm/sec) for samples PT02 and PT01, respectively. The hydraulic conductivity is consistent with published values for unconsolidated sediments that include silt, sandy silts, silty sands, clayey sands, fine sands, and till (*Applied Hydrogeology - Fourth Edition*, C.W. Fetter). Charts depicting the percolation test data for the Site are provided in Attachments 3 and 4.



Summary and Conclusions

Laboratory analysis of the soil samples indicate BTEX, total TPH, SVOC, EC, pH, SAR, and metals (with the exception of arsenic) are in compliance with COGCC Table 910-1 levels. The arsenic concentrations in each of the soil samples exceeded COGCC Table 910-1 levels. However, the arsenic concentrations appear to be representative of background concentrations observed in the regional soils.

The laboratory soil classification analyses indicate that the soil type at the Site is loamy sand. These results align with the classifications made by the NRCS. Hydraulic conductivity values from the percolation testing are consistent with the soil classification at the Site. Once drilling mud is incorporated at the Site, LTE anticipates the porosity and hydraulic conductivity will slightly decrease in the upper soils.

Please call us at (303) 433-9788 if you have any questions regarding this letter report or require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'Devin Girtin'.

Devin Girtin, G.I.T.
Staff Geologist

A handwritten signature in black ink that reads 'Brian Dodek'.

Brian Dodek, P.G.
Client Manager/Project Geologist

cc: Aaron Clyncke, PDC-Evans Office

Attachments (7):

Figure 1 - Site Location Map

Figure 2 - Site Map

Table 1 - Soil Analytical Results

Attachment 1 - Laboratory Analytical Report

Attachment 2 - Soil Classification Laboratory Report

Attachment 3 - Percolation Test Chart for Soil Sample PT01

Attachment 4 - Percolation Test Chart for Soil Sample PT02

FIGURES



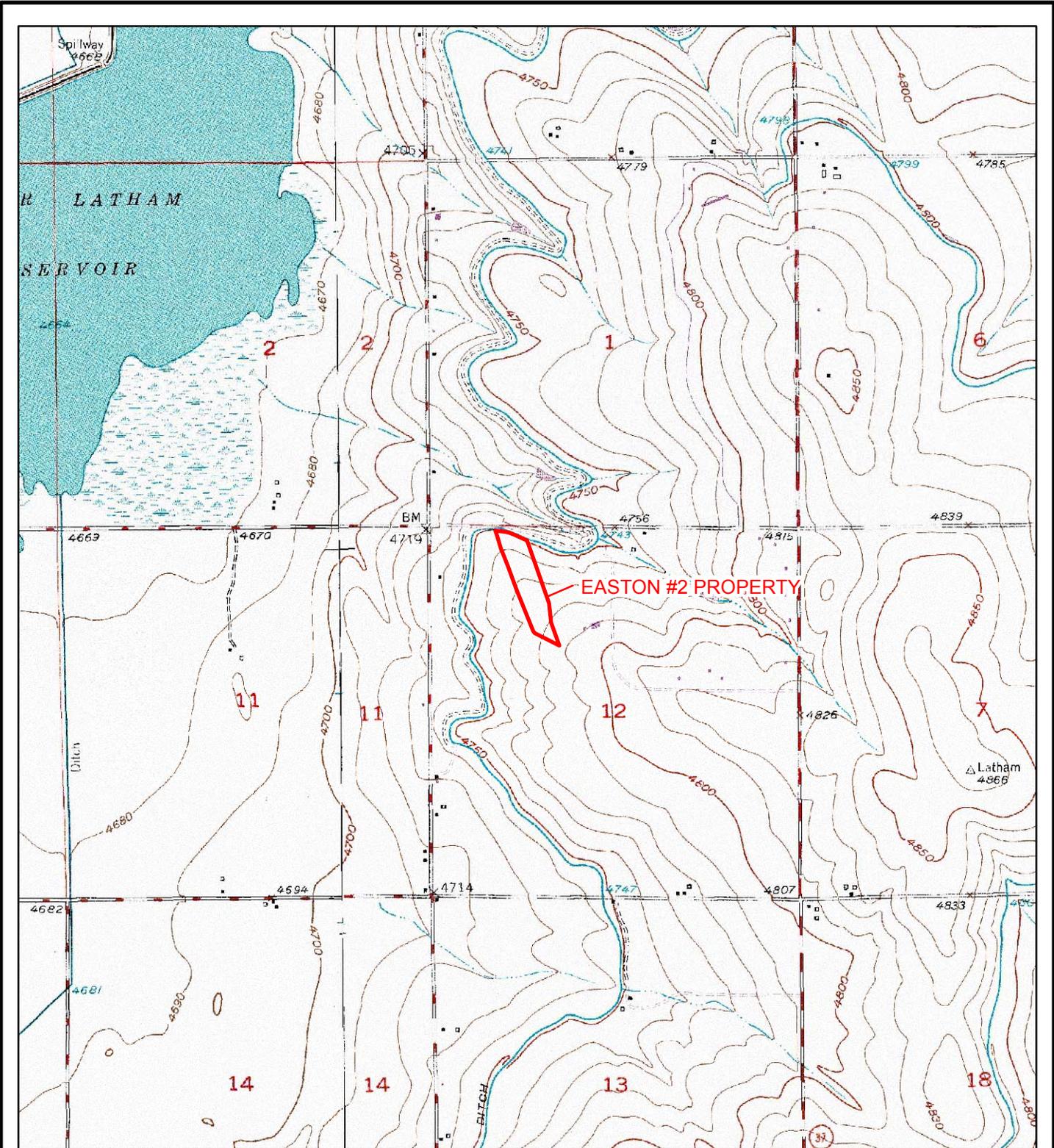


IMAGE COURTESY OF USDA/NRCS, 1994

LEGEND

 POTENTIAL DRILLING MUD LAND APPLICATION AREA

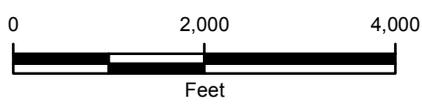


FIGURE 1
 SITE LOCATION MAP
 EASTON #2 PROPERTY
 SEC 12 T4N R65W
 WELD COUNTY, COLORADO
D87 9B9F; MZ-B7"



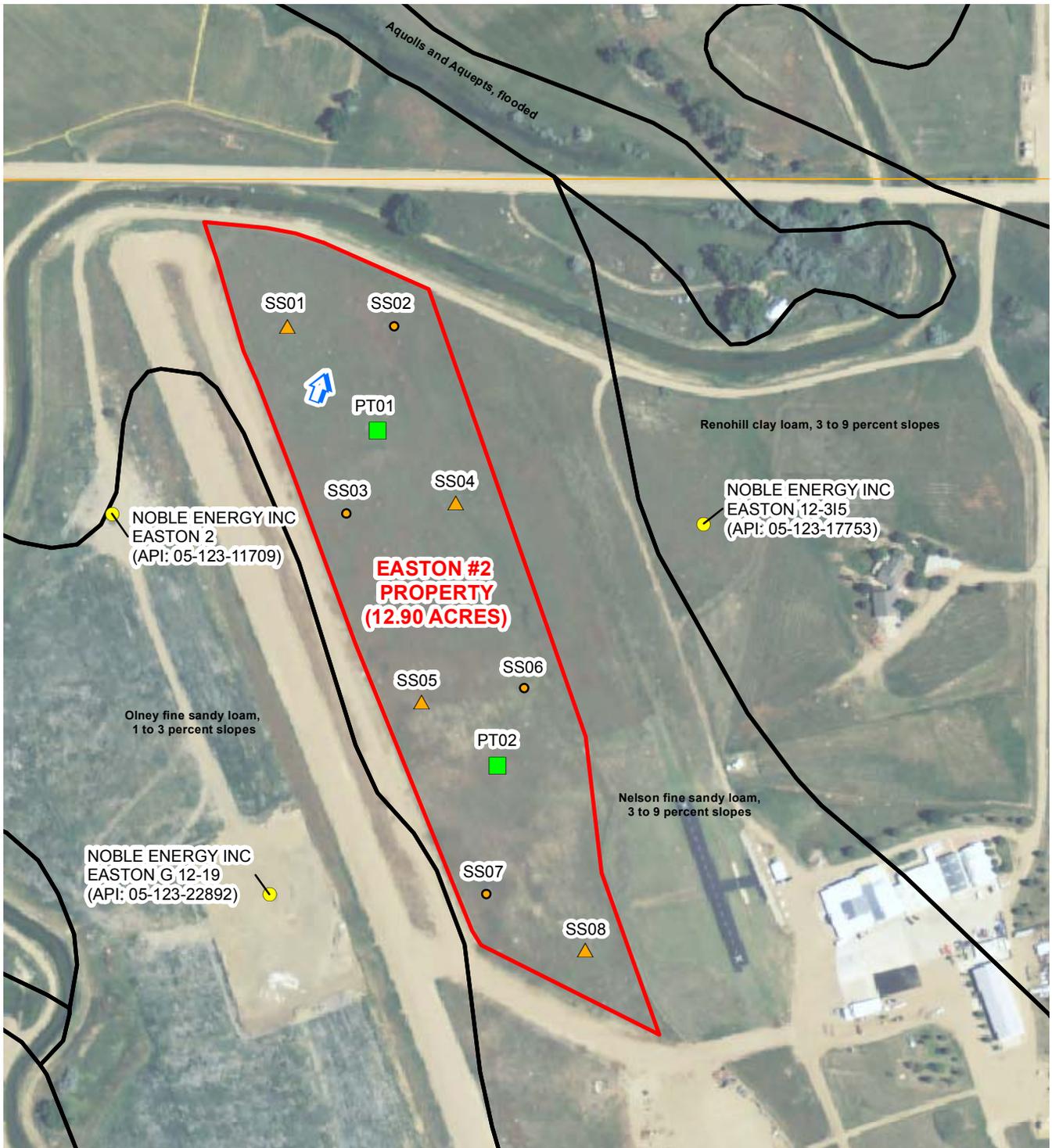


IMAGE COURTESY OF USDA/NRCS, 2011

LEGEND

- BACKGROUND SOIL SAMPLE
- ▲ ARSENIC SOIL SAMPLE
- PERCOLATION TEST
- PRODUCTION WELL
- ↑ ESTIMATED GROUNDWATER FLOW DIRECTION
- POTENTIAL DRILLING MUD LAND APPLICATION AREA
- NRCS SOIL TYPE
- SECTION

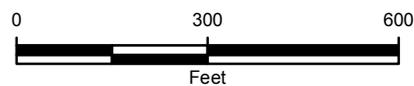


FIGURE 2
SOIL SAMPLE LOCATION MAP
EASTON #2 PROPERTY
SEC 12 T4N R65W
WELD COUNTY, COLORADO
PDC ENERGY, INC.



TABLE



TABLE 1
SOIL ANALYTICAL RESULTS
EASTON #2 PROPERTY
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	SS01	SS02	SS03	SS04
Depth (feet)		0-1.5	0-1.5	0-1.5	0-1.5
Sample Date		7/2/2012	7/2/2012	7/2/2012	7/2/2012
Inorganics					
Electrical Conductivity (mmhos/cm)	4	NA	0.332	0.176	NA
SAR (ratio)	12	NA	0.200	0.360	NA
pH, Lab (pH Units)	6 to 9	NA	8.3	7.8	NA
Metals					
Chromium (mg/kg)		NA	6.92	7.27	NA
Arsenic (mg/kg)	0.39	1.51	2.49	2.46	1.97
Barium (mg/kg)	15000	NA	62.8	75.6	NA
Cadmium (mg/kg)	70	NA	0.123	0.155	NA
Chromium+3 Calculated (mg/kg)	120000	NA	5.92	6.27	NA
Chromium, Hexavalent (mg/kg)	23	NA	<1	<1	NA
Copper (mg/kg)	3100	NA	5.62	5.70	NA
Lead (mg/kg)	400	NA	6.47	7.08	NA
Mercury (mg/kg)	23	NA	<0.0500	<0.0500	NA
Nickel (mg/kg)	1600	NA	7.19	6.94	NA
Selenium (mg/kg)	390	NA	<0.100	0.102	NA
Silver (mg/kg)	390	NA	<0.100	<0.100	NA
Zinc (mg/kg)	23000	NA	25.9	24.5	NA
Organic Compounds					
TPH-DRO (mg/kg)		NA	<50	<50	NA
TPH-GRO (mg/kg)		NA	<0.50	<0.50	NA
TPH-Total (mg/kg)	500	NA	<50.5	<50.5	NA
Benzene (mg/kg)	0.17	NA	<0.0050	<0.0050	NA
Toluene (mg/kg)	85	NA	<0.0050	<0.0050	NA
Ethylbenzene (mg/kg)	100	NA	<0.0050	<0.0050	NA
Xylenes, Total (mg/kg)	175	NA	<0.0050	<0.0050	NA
Acenaphthene (mg/kg)	1000	NA	<0.005	<0.005	NA
Anthracene (mg/kg)	1000	NA	<0.005	<0.005	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	<0.005	<0.005	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	<0.005	<0.005	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	<0.005	<0.005	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	<0.005	<0.005	NA
Chrysene (mg/kg)	22	NA	<0.005	<0.005	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	<0.01	<0.01	NA
Fluoranthene (mg/kg)	1000	NA	<0.005	<0.005	NA
Fluorene (mg/kg)	1000	NA	<0.005	<0.005	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	<0.01	<0.01	NA
Naphthalene (mg/kg)	23	NA	<0.005	<0.005	NA
Pyrene (mg/kg)	1000	NA	<0.005	<0.005	NA

TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EASTON #2 PROPERTY
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	SS05	SS06	SS07	SS08
Depth (feet)		0-1.5	0-1.5	0-1.5	0-1.5
Sample Date		7/2/2012	7/2/2012	7/2/2012	7/2/2012
Inorganics					
Electrical Conductivity (mmhos/cm)	4	NA	0.449	0.644	NA
SAR (ratio)	12	NA	0.750	0.700	NA
pH, Lab (pH Units)	6 to 9	NA	8.5	8.3	NA
Metals					
Chromium (mg/kg)		NA	9.74	8.88	NA
Arsenic (mg/kg)	0.39	3.18	2.89	4.40	2.63
Barium (mg/kg)	15000	NA	94.7	104	NA
Cadmium (mg/kg)	70	NA	0.397	0.297	NA
Chromium+3 Calculated (mg/kg)	120000	NA	8.74	7.88	NA
Chromium, Hexavalent (mg/kg)	23	NA	<1	<1	NA
Copper (mg/kg)	3100	NA	12.9	11.2	NA
Lead (mg/kg)	400	NA	10.8	11.1	NA
Mercury (mg/kg)	23	NA	<0.0500	<0.0500	NA
Nickel (mg/kg)	1600	NA	13.8	10.9	NA
Selenium (mg/kg)	390	NA	0.219	0.209	NA
Silver (mg/kg)	390	NA	<0.100	<0.100	NA
Zinc (mg/kg)	23000	NA	57.0	44.7	NA
Organic Compounds					
TPH-DRO (mg/kg)		NA	<50	<50	NA
TPH-GRO (mg/kg)		NA	<0.50	<0.50	NA
TPH-Total (mg/kg)	500	NA	<50.5	<50.5	NA
Benzene (mg/kg)	0.17	NA	<0.0050	<0.0050	NA
Toluene (mg/kg)	85	NA	<0.0050	<0.0050	NA
Ethylbenzene (mg/kg)	100	NA	<0.0050	<0.0050	NA
Xylenes, Total (mg/kg)	175	NA	<0.0050	<0.0050	NA
Acenaphthene (mg/kg)	1000	NA	<0.005	<0.005	NA
Anthracene (mg/kg)	1000	NA	<0.005	<0.005	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	<0.005	<0.005	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	<0.005	<0.005	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	<0.005	<0.005	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	<0.005	<0.005	NA
Chrysene (mg/kg)	22	NA	<0.005	<0.005	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	<0.01	<0.01	NA
Fluoranthene (mg/kg)	1000	NA	<0.005	<0.005	NA
Fluorene (mg/kg)	1000	NA	<0.005	<0.005	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	<0.01	<0.01	NA
Naphthalene (mg/kg)	23	NA	<0.005	<0.005	NA
Pyrene (mg/kg)	1000	NA	<0.005	<0.005	NA

TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EASTON #2 PROPERTY
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	SS05	SS06	SS07	SS08
Depth (feet)		0-1.5	0-1.5	0-1.5	0-1.5
Sample Date		7/2/2012	7/2/2012	7/2/2012	7/2/2012

Notes:

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

SAR - Sodium Adsorption Ratio

TPH - Total Petroleum Hydrocarbons (C6-C28)

< - less than stated laboratory reporting limit

NA - Not Analyzed

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.

TPH-Total - sum of TPH-GRO and TPH-DRO



ATTACHMENT 1
LABORATORY ANALYTICAL REPORT



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 10, 2012

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Easton Property

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R207019-01	Soil	07/02/12 12:05	07/02/12 16:30
SS02	R207019-02	Soil	07/02/12 12:20	07/02/12 16:30
SS03	R207019-03	Soil	07/02/12 12:40	07/02/12 16:30
SS04	R207019-04	Soil	07/02/12 13:00	07/02/12 16:30
SS05	R207019-05	Soil	07/02/12 13:15	07/02/12 16:30
SS06	R207019-06	Soil	07/02/12 13:35	07/02/12 16:30
SS07	R207019-07	Soil	07/02/12 13:55	07/02/12 16:30
SS08	R207019-08	Soil	07/02/12 14:10	07/02/12 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



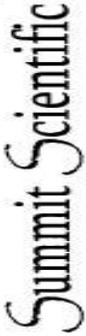
LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

R207019



741 Comoros Circle Suite 5
Golden, Colorado 80401
303-277-9310 • 303-277-9331 Fax

Client: LT Environmental, Inc.
Address: 4600 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Easton #2 Property
Project Number: 0788120
Sampler Name: Devin Griffin

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:							Special Instructions						
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	PH / EC	SAR		Table 910.1 metals	Table 910.1 PAHs	Arsenic			
5501	7-2-12	1205	1			X																	
5502		1230	3																				
5503		1240	3																				
5504		1340	1																				
5505		1345	1																				
5506		1335	3																				
5507		1355	3																				
5508		1410	1																				

Relinquished by: <i>Devin Griffin</i>	Date/Time: 7-2-12	Received by: <i>[Signature]</i>	Date/Time: 7-2-12
Relinquished by: <i>[Signature]</i>	Date/Time: 7-2-12	Received by: <i>[Signature]</i>	Date/Time: 7-2-12
Relinquished by: <i>[Signature]</i>	Date/Time: 7-2-12	Received by: <i>[Signature]</i>	Date/Time: 7-2-12

Turn Around Time (Check)	Notes:
Same Day <input type="checkbox"/>	72 Hours <input checked="" type="checkbox"/>
24 Hours <input checked="" type="checkbox"/>	Standard <input type="checkbox"/>
48 Hours <input type="checkbox"/>	
Sample Integrity:	Temperature Upon Receipt: 50
Impact: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	

Notes:
Fall Table 910-1 for 5502, 5503, 5506, + 5509.
As only, for other samples



LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS01
R207019-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.51	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.0 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		102 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.92	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	62.8	0.100	"	"	"	"	"	"	
Cadmium	0.123	0.100	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	6.92	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	5.62	0.500	"	"	"	"	"	"	
Lead	6.47	0.100	"	"	"	"	"	"	
Nickel	7.19	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	25.9	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.332	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	204	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	23.9	1.00	"	"	"	"	"	"	
Sodium	11.1	7.00	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.200		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS03
R207019-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		112 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS03
R207019-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		97.9 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		111 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	6.27	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.46	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	75.6	0.100	"	"	"	"	"	"	
Cadmium	0.155	0.100	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS03
R207019-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	7.27	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	5.70	0.500	"	"	"	"	"	"	
Lead	7.08	0.100	"	"	"	"	"	"	
Nickel	6.94	0.100	"	"	"	"	"	"	
Selenium	0.102	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	24.5	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.176	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.9	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	10.9	1.00	"	"	"	"	"	"	
Sodium	8.76	7.00	"	"	"	"	"	"	

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS03
R207019-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.360		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS04
R207019-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.97	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS05
R207019-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.18	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

Summit Scientific

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4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.0 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		101 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	8.74	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.89	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	94.7	0.100	"	"	"	"	"	"	
Cadmium	0.397	0.100	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	9.74	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	12.9	0.500	"	"	"	"	"	"	
Lead	10.8	0.100	"	"	"	"	"	"	
Nickel	13.8	0.100	"	"	"	"	"	"	
Selenium	0.219	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	57.0	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.449	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	450	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	76.0	1.00	"	"	"	"	"	"	
Sodium	65.2	7.00	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.750		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS07
R207019-07 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS07
R207019-07 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		94.8 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		107 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	7.88	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.40	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	104	0.100	"	"	"	"	"	"	
Cadmium	0.297	0.100	"	"	"	"	"	"	

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Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS07
R207019-07 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Chromium	8.88	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A
Copper	11.2	0.500	"	"	"	"	"	"
Lead	11.1	0.100	"	"	"	"	"	"
Nickel	10.9	0.100	"	"	"	"	"	"
Selenium	0.209	0.100	"	"	"	"	"	"
Silver	ND	0.100	"	"	"	"	"	"
Zinc	44.7	10.0	"	"	"	"	"	"

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.644	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	281	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	46.0	1.00	"	"	"	"	"	"	
Sodium	48.0	7.00	"	"	"	"	"	"	

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 Project Manager: Brian Dodek

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 07/10/12 09:17

SS07
R207019-07 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.700		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS08
R207019-08 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.63	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070212 - EPA 3550A

Blank (2070212-BLK1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	ND	50	mg/kg							
LCS (2070212-BS1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	599	50	mg/kg	501		119	79.3-126			
LCS Dup (2070212-BSD1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	579	50	mg/kg	501		116	79.3-126	3.34	11	
Matrix Spike (2070212-MS1)		Source: R207014-01			Prepared: 07/02/12 Analyzed: 07/03/12					
C10-C28 (DRO)	585	50	mg/kg	501	ND	117	45.1-150			
Matrix Spike Dup (2070212-MSD1)		Source: R207014-01			Prepared: 07/02/12 Analyzed: 07/03/12					
C10-C28 (DRO)	591	50	mg/kg	501	ND	118	45.1-150	1.00	25	

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Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070211 - EPA 5030 Soil MS

Blank (2070211-BLK1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0397</i>		<i>97.1</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>30-150</i>			

LCS (2070211-BS1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.143	0.0050	mg/kg	0.150		95.5	58.1-115			
Toluene	0.154	0.0050	"	0.150		103	56.7-123			
Ethylbenzene	0.154	0.0050	"	0.150		102	61.4-138			
m,p-Xylene	0.303	0.010	"	0.300		101	63.6-128			
o-Xylene	0.154	0.0050	"	0.150		103	62.6-134			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0397</i>		<i>"</i>	<i>0.0397</i>		<i>100</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			

LCS Dup (2070211-BSD1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.145	0.0050	mg/kg	0.150		96.8	58.1-115	1.27	20	
Toluene	0.155	0.0050	"	0.150		104	56.7-123	1.03	20	
Ethylbenzene	0.153	0.0050	"	0.150		102	61.4-138	0.235	12.2	
m,p-Xylene	0.301	0.010	"	0.300		100	63.6-128	0.785	13.2	
o-Xylene	0.153	0.0050	"	0.150		102	62.6-134	0.839	12.2	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0397</i>		<i>104</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070211 - EPA 5030 Soil MS

Matrix Spike (2070211-MS1)

Source: R207014-01 Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.114	0.0050	mg/kg	0.150	0.00108	75.1	47.2-120			
Toluene	0.114	0.0050	"	0.150	ND	75.9	47.7-125			
Ethylbenzene	0.103	0.0050	"	0.150	ND	68.9	34.5-150			
m,p-Xylene	0.205	0.010	"	0.300	ND	68.5	30-150			
o-Xylene	0.107	0.0050	"	0.150	ND	71.6	30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0397		112	30-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	30-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	30-150			

Matrix Spike Dup (2070211-MSD1)

Source: R207014-01 Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.107	0.0050	mg/kg	0.150	0.00108	70.5	47.2-120	6.28	15.1	
Toluene	0.102	0.0050	"	0.150	ND	68.0	47.7-125	11.1	16.8	
Ethylbenzene	0.0852	0.0050	"	0.150	ND	56.8	34.5-150	19.2	10.1	
m,p-Xylene	0.169	0.010	"	0.300	ND	56.2	30-150	19.7	17.2	
o-Xylene	0.0898	0.0050	"	0.150	ND	59.9	30-150	17.8	15.2	
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0397		109	30-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	30-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	30-150			

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4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070210 - EPA 3550A

Blank (2070210-BLK1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	ND	5.00	ug/kg							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	26.3		"	31.3		83.9	50-150			
<i>Surrogate: Fluoranthene-d10</i>	23.9		"	31.1		76.8	50-150			

LCS (2070210-BS1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	27.6	5.00	ug/kg	33.3		82.7	58-128			
Acenaphthylene	27.0	5.00	"	33.3		81.0	60.6-126			
Anthracene	27.6	5.00	"	33.3		82.7	58.3-133			
Benzo (a) anthracene	24.6	5.00	"	33.3		73.7	56.3-132			
Benzo (b) fluoranthene	20.5	5.00	"	33.3		61.5	50.3-131			
Benzo (k) fluoranthene	24.6	5.00	"	33.3		73.7	48.6-130			
Benzo (g,h,i) perylene	20.1	5.00	"	33.3		60.2	51.9-125			
Benzo (a) pyrene	25.3	5.00	"	33.3		76.0	57.4-128			
Chrysene	24.2	5.00	"	33.3		72.6	55.5-117			
Dibenz (a,h) anthracene	17.6	10.0	"	33.3		52.9	46.9-124			
Fluoranthene	28.0	5.00	"	33.3		83.9	58-138			
Fluorene	27.4	5.00	"	33.3		82.3	64.2-123			
Indeno (1,2,3-cd) pyrene	25.6	10.0	"	33.3		76.7	35.5-147			
Naphthalene	26.5	5.00	"	33.3		79.6	60.1-122			
Phenanthrene	27.0	5.00	"	33.3		80.9	58-127			
Pyrene	26.5	5.00	"	33.3		79.6	53.9-129			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	26.1		"	31.3		83.4	50-150			
<i>Surrogate: Fluoranthene-d10</i>	25.0		"	31.1		80.6	50-150			

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4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070210 - EPA 3550A

LCS Dup (2070210-BSD1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	26.5	5.00	ug/kg	33.3		79.6	58-128	3.82	17.2	
Acenaphthylene	27.2	5.00	"	33.3		81.6	60.6-126	0.722	18	
Anthracene	26.9	5.00	"	33.3		80.7	58.3-133	2.47	17.5	
Benzo (a) anthracene	24.7	5.00	"	33.3		74.2	56.3-132	0.649	16	
Benzo (b) fluoranthene	21.7	5.00	"	33.3		65.1	50.3-131	5.67	14.8	
Benzo (k) fluoranthene	23.6	5.00	"	33.3		70.9	48.6-130	3.88	20	
Benzo (g,h,i) perylene	21.2	5.00	"	33.3		63.5	51.9-125	5.26	20	
Benzo (a) pyrene	28.0	5.00	"	33.3		84.1	57.4-128	10.1	16.5	
Chrysene	23.3	5.00	"	33.3		70.0	55.5-117	3.67	15.2	
Dibenz (a,h) anthracene	17.3	10.0	"	33.3		51.9	46.9-124	1.84	20	
Fluoranthene	26.7	5.00	"	33.3		80.0	58-138	4.66	16.5	
Fluorene	26.8	5.00	"	33.3		80.4	64.2-123	2.40	18.5	
Indeno (1,2,3-cd) pyrene	25.0	10.0	"	33.3		75.1	35.5-147	2.05	20	
Naphthalene	25.7	5.00	"	33.3		77.1	60.1-122	3.19	17.8	
Phenanthrene	25.9	5.00	"	33.3		77.6	58-127	4.24	17	
Pyrene	25.6	5.00	"	33.3		76.8	53.9-129	3.52	20	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	25.6		"	31.3		81.6	50-150			
<i>Surrogate: Fluoranthene-d10</i>	24.7		"	31.1		79.4	50-150			

Matrix Spike (2070210-MS1)

Source: R207019-02

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	26.9	5.00	ug/kg	33.3	ND	80.7	30-150			
Acenaphthylene	28.4	5.00	"	33.3	ND	85.3	52.1-122			
Anthracene	28.3	5.00	"	33.3	ND	85.0	36.5-130			
Benzo (a) anthracene	33.2	5.00	"	33.3	ND	99.6	30-150			
Benzo (b) fluoranthene	19.1	5.00	"	33.3	ND	57.3	30-150			
Benzo (k) fluoranthene	24.1	5.00	"	33.3	ND	72.2	30-150			
Benzo (g,h,i) perylene	19.9	5.00	"	33.3	ND	59.7	30-150			
Benzo (a) pyrene	25.9	5.00	"	33.3	ND	77.6	30-150			
Chrysene	23.0	5.00	"	33.3	ND	69.0	31.4-130			
Dibenz (a,h) anthracene	18.6	10.0	"	33.3	ND	55.8	30-145			
Fluoranthene	29.0	5.00	"	33.3	ND	87.0	30-150			
Fluorene	29.2	5.00	"	33.3	ND	87.6	47.9-126			
Indeno (1,2,3-cd) pyrene	26.1	10.0	"	33.3	ND	78.3	30-138			
Naphthalene	26.5	5.00	"	33.3	ND	79.6	39.9-129			
Phenanthrene	25.7	5.00	"	33.3	ND	77.0	30-150			
Pyrene	25.0	5.00	"	33.3	ND	74.9	30-150			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	30.0		"	31.3		95.7	50-150			
<i>Surrogate: Fluoranthene-d10</i>	32.9		"	31.1		106	50-150			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2070210 - EPA 3550A

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2070301 - EPA 3050B

Blank (2070301-BLK1)

Prepared & Analyzed: 07/03/12

Arsenic	ND	0.100	mg/kg							
Arsenic	ND	0.100	"							
Barium	ND	0.100	"							
Cadmium	ND	0.100	"							
Chromium	ND	0.100	"							
Copper	ND	0.500	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.100	"							
Silver	ND	0.100	"							
Zinc	ND	10.0	"							

LCS (2070301-BS1)

Prepared & Analyzed: 07/03/12

Arsenic	2.51	0.100	mg/kg	2.54	98.6	80-119				
Arsenic	2.51	0.100	"	2.54	98.6	80-119				
Barium	226	0.100	"	225	100	80-119				
Cadmium	1.06	0.100	"	1.02	105	80-124				
Chromium	10.9	0.100	"	10.0	109	80-121				
Copper	18.7	0.500	"	20.0	93.5	78.9-110				
Lead	67.6	0.100	"	75.0	90.2	78.1-116				
Nickel	14.8	0.100	"	15.1	98.3	80-118				
Selenium	1.08	0.100	"	1.15	93.7	80-106				
Silver	0.191	0.100	"	0.200	95.7	75.3-124				
Zinc	68.7	10.0	"	75.0	91.6	83.5-117				

LCS Dup (2070301-BSD1)

Prepared & Analyzed: 07/03/12

Arsenic	2.29	0.100	mg/kg	2.54	90.0	80-119	9.12	20		
Arsenic	2.29	0.100	"	2.54	90.0	80-119	9.12	20		
Barium	225	0.100	"	225	100	80-119	0.464	20		
Cadmium	0.986	0.100	"	1.02	97.1	80-124	7.47	20		
Chromium	10.0	0.100	"	10.0	99.6	80-121	8.76	20		
Copper	17.0	0.500	"	20.0	85.0	78.9-110	9.52	20		
Lead	69.3	0.100	"	75.0	92.3	78.1-116	2.34	17.2		
Nickel	13.6	0.100	"	15.1	89.8	80-118	9.08	20		
Selenium	1.10	0.100	"	1.15	95.3	80-106	1.69	20		
Silver	0.199	0.100	"	0.200	99.5	75.3-124	3.84	23.2		
Zinc	75.4	10.0	"	75.0	101	83.5-117	9.30	20		

Summit Scientific

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07/10/12 09:17

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2070301 - EPA 3050B

Matrix Spike (2070301-MS1)

Source: R207019-01 Prepared & Analyzed: 07/03/12

Arsenic	4.00	0.100	mg/kg	2.32	1.51	107	75-125		
Arsenic	4.00	0.100	"	2.32	1.51	107	75-125		
Barium	268	0.100	"	206	65.8	98.2	75-125		
Cadmium	1.18	0.100	"	0.928	0.143	112	75-125		
Chromium	15.9	0.100	"	9.18	6.78	98.9	45.6-137		
Copper	21.6	0.500	"	18.3	5.15	89.8	50.4-123		
Lead	67.0	0.100	"	68.5	6.06	88.9	46.2-136		
Nickel	18.8	0.100	"	13.8	5.69	94.8	75-157		
Selenium	0.912	0.100	"	1.05	0.0713	80.0	46.5-124		
Silver	0.175	0.100	"	0.183	0.0236	82.8	42.7-144		
Zinc	82.1	10.0	"	68.5	21.7	88.1	26.3-153		

Matrix Spike Dup (2070301-MSD1)

Source: R207019-01 Prepared & Analyzed: 07/03/12

Arsenic	3.51	0.100	mg/kg	2.36	1.51	84.6	75-125	13.2	24.2
Arsenic	3.51	0.100	"	2.36	1.51	84.6	75-125	13.2	24.2
Barium	275	0.100	"	209	65.8	100	75-125	2.76	25
Cadmium	1.17	0.100	"	0.942	0.143	109	75-125	0.391	22.3
Chromium	15.9	0.100	"	9.33	6.78	98.2	45.6-137	0.489	25
Copper	21.8	0.500	"	18.6	5.15	89.3	50.4-123	0.704	25
Lead	69.7	0.100	"	69.6	6.06	91.5	46.2-136	4.02	25
Nickel	18.9	0.100	"	14.0	5.69	94.6	75-157	0.860	25
Selenium	0.939	0.100	"	1.07	0.0713	81.3	46.5-124	2.92	25
Silver	0.189	0.100	"	0.186	0.0236	89.1	42.7-144	7.73	25
Zinc	83.2	10.0	"	69.6	21.7	88.4	26.3-153	1.38	25

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Project: PDC - Easton Property

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Total Mercury by EPA Method 7471/7470 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2070303 - EPA 7471A

Blank (2070303-BLK1)				Prepared & Analyzed: 07/03/12							
Mercury	ND	0.0500	mg/kg								
LCS (2070303-BS1)				Prepared & Analyzed: 07/03/12							
Mercury	0.388	0.0500	mg/kg	0.400	97.1	85.5-116					
LCS Dup (2070303-BSD1)				Prepared & Analyzed: 07/03/12							
Mercury	0.390	0.0500	mg/kg	0.400	97.5	85.5-116	0.432	17			
Matrix Spike (2070303-MS1)				Source: R207019-02		Prepared & Analyzed: 07/03/12					
Mercury	0.382	0.0500	mg/kg	0.373	0.0138	98.8	75-125				
Matrix Spike Dup (2070303-MSD1)				Source: R207019-02		Prepared & Analyzed: 07/03/12					
Mercury	0.396	0.0500	mg/kg	0.390	0.0138	98.1	75-125	3.60	25		

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Reported:
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070311 - General Preparation

Duplicate (2070311-DUP1)		Source: R207019-02			Prepared & Analyzed: 07/03/12					
pH	8.3		pH Units		8.3			0.241	4.95	

Batch 2070312 - General Preparation

Duplicate (2070312-DUP1)		Source: R207019-03			Prepared & Analyzed: 07/03/12					
Specific Conductance (EC)	0.178	0.00100	mmhos/cm		0.176			1.50	15.5	

Summit Scientific

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070302 - General Preparation

Blank (2070302-BLK1)

Prepared & Analyzed: 07/03/12

Calcium	ND	2.50	mg/kg						
Magnesium	ND	1.00	"						
Sodium	6.95	5.00	"						

LCS (2070302-BS1)

Prepared & Analyzed: 07/03/12

Calcium	360	2.50	mg/kg	400		90.1	70-130		
Magnesium	198	1.00	"	200		99.1	70-130		
Sodium	807	5.00	"	800		101	70-130		

LCS Dup (2070302-BSD1)

Prepared & Analyzed: 07/03/12

Calcium	353	2.50	mg/kg	400		88.3	70-130	1.98	25
Magnesium	198	1.00	"	200		98.9	70-130	0.230	25
Sodium	799	5.00	"	800		99.9	70-130	0.953	25

Matrix Spike (2070302-MS1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Calcium	522	2.50	mg/kg	415	204	76.7	70-130		
Magnesium	238	1.00	"	208	23.9	103	70-130		
Sodium	871	5.00	"	831	11.1	104	70-130		

Matrix Spike Dup (2070302-MSD1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Calcium	601	2.50	mg/kg	415	204	95.5	70-130	13.9	25
Magnesium	231	1.00	"	208	23.9	99.6	70-130	3.25	25
Sodium	838	5.00	"	831	11.1	99.5	70-130	3.91	25

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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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ATTACHMENT 2
SOIL CLASSIFICATION LABORATORY REPORT



WELD LABORATORIES, INC.

1527 First Avenue • Greeley, Colorado 80631
Phone: (970) 353-8118 • Fax: (970) 353-1671
www.weldlabs.com

July 10, 2012

LT Environmental
4600 W 60th Ave
Arvada, CO 80003-6911

Laboratory No. E12184-3

Soil Classification

Sample ID	% Organic Matter	% Silt	% Clay	% Sand	% Fine Sand	Classification
SS03 Easton #2 Property	1.6	8.0	9.1	66.9	16.0	Loamy Sand



Project Manager

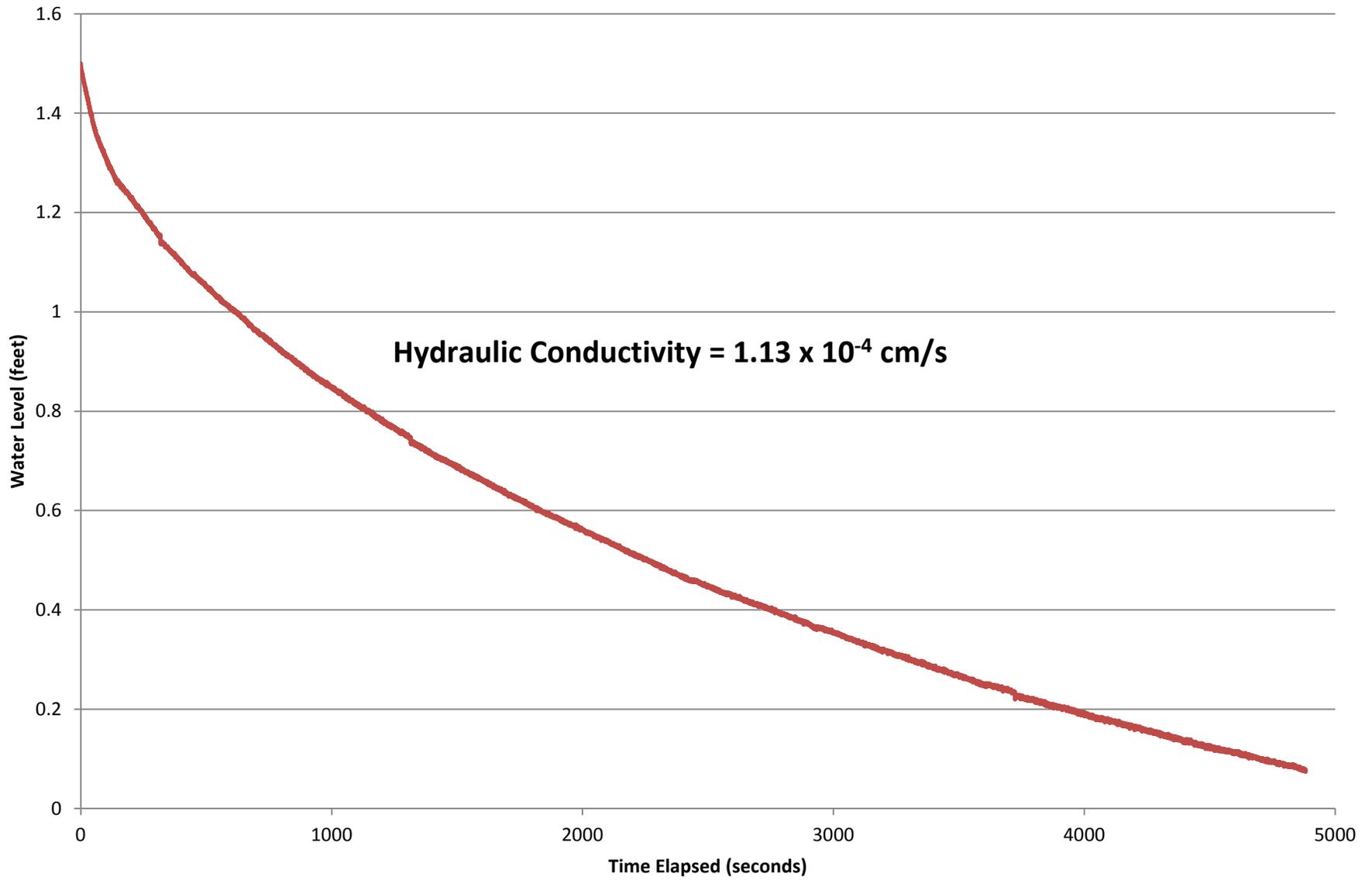


Date

ATTACHMENT 3
PERCOLATION TEST CHART FOR SOIL SAMPLE PT01



Percolation Test for Soil Sample PT01



ATTACHMENT 4
PERCOLATION TEST CHART FOR SOIL SAMPLE PT02



Percolation Test for Soil Sample PT02

