

IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

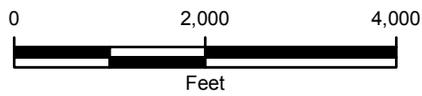


FIGURE 1
SITE LOCATION MAP
CIRCLE B MERRITT PAD
WELD COUNTY, COLORADO

BILL BARRETT CORPORATION



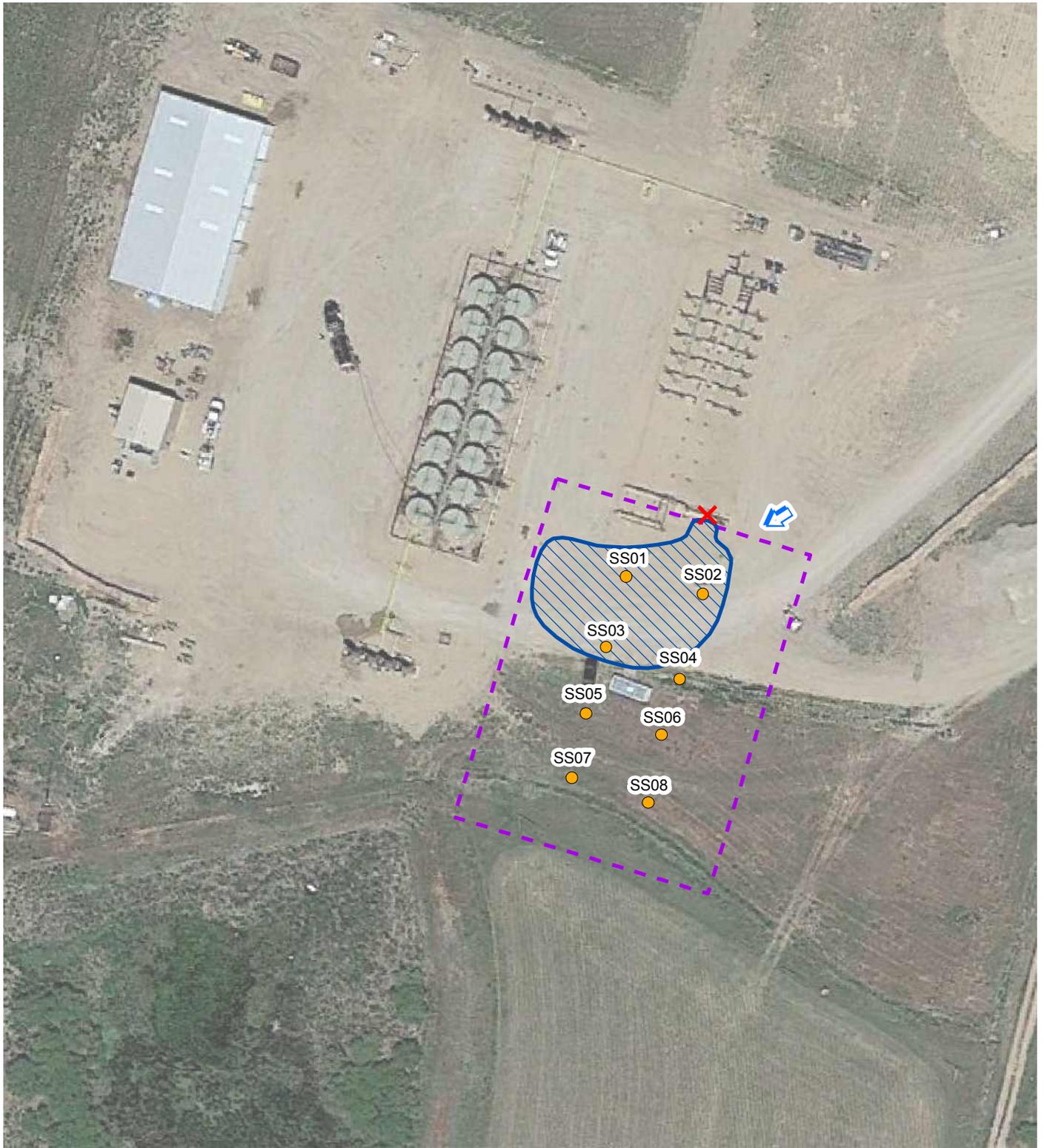


IMAGE COURTESY OF GOOGLE EARTH 2014

LEGEND

-  RELEASE
-  SOIL SAMPLE
-  SURFACE WATER FLOW DIRECTION
-  POTENTIAL CRUDE IMPACT AREA
-  POTENTIAL CONDENSATE OVERSPRAY IMPACT AREA

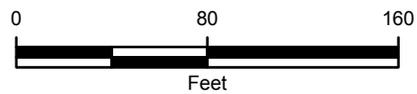


FIGURE 2
SITE MAP
 CIRCLE B MERRITT PAD
 WELD COUNTY, COLORADO

BILL BARRETT CORPORATION



TABLE 1
SOIL ANALYTICAL RESULTS
CIRCLE B MERRITT PAD
WELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Sample ID	Depth (feet bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SS01	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<0.50	140	140
SS02	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<0.50	<50	<50.50
SS03	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	0.010	<0.50	320	320
SS04	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<0.50	<50	<50.50
SS05	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	0.074	6.4	870	876.4
	0-0.5	11/7/2014	<0.100	<0.100	<0.100	<0.100	<0.400	<10.0	87.5	87.5
SS06	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	0.33	27	2,400	2,427
	0-0.5	11/7/2014	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	107	107
SS07	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	0.017	<0.50	220	220
SS08	0-0.5	10/14/2014	<0.0020	<0.0050	<0.0050	<0.010	0.16	12	4,200	4,212
	0-0.5	11/7/2014	<0.002	<0.002	0.002	0.002	<0.008	<0.200	63.3	63.3
COGCC Table 910-1 Standard			0.17	85	100	175	23	--	--	500

Notes:

mg/kg - milligrams per kilogram

GRO - gasoline range organics

DRO - diesel range organics

NA - not analyzed

TPH - total petroleum hydrocarbons

TPH is the sum of GRO and DRO

COGCC - Colorado Oil and Gas Conservation Commission

-- - not applicable

< indicates result is less than the stated laboratory method reporting limit

Benzene, toluene, ethylbenzene, total xylenes, naphthalene, and GRO analyzed by EPA Method 8260B or 8260C

DRO analyzed by EPA Modified Method 8015 or 8015C



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 19, 2014

Rob Rebel

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BBC - Circle B/Merrit Pad

Enclosed are the results of analyses for samples received by Summit Scientific on 10/14/14 17:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1410118-01	Soil	10/14/14 12:00	10/14/14 17:18
SS02	1410118-02	Soil	10/14/14 12:02	10/14/14 17:18
SS03	1410118-03	Soil	10/14/14 12:04	10/14/14 17:18
SS04	1410118-04	Soil	10/14/14 12:06	10/14/14 17:18
SS05	1410118-05	Soil	10/14/14 12:08	10/14/14 17:18
SS06	1410118-06	Soil	10/14/14 12:10	10/14/14 17:18
SS07	1410118-07	Soil	10/14/14 12:12	10/14/14 17:18
SS08	1410118-08	Soil	10/14/14 12:14	10/14/14 17:18

Summit Scientific

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

Summit Scientific ^{S₂} 1410118

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Rob Rebel
Address: 4600 West 60th Avenue E-Mail: rebel@ltenv.com
City/State/Zip: Arvada, CO 80003 Project Name: Circle B/Merrit Pad
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Number: 027314029
Sampler Name: David Steinback

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	GRO	BTEX		Naphthalene
SS01	10/14/14	1200	1			X		X				X	X	X	X	
SS02		1202														
SS03		1204														
SS04		1206														
SS05		1208														
SS06		1210														
SS07		1212														
SS08		1214														

Relinquished by: <i>David Steinback</i> Date/Time: 10/14/14 1710	Received by: <i>Aisha Alkhan</i> Date/Time: 10/14/14 5:18 PM	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Sample Integrity: <u>GO</u> Temperature Upon Receipt: _____ Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished by: _____ Date/Time: _____	Received in Lab by: _____ Date/Time: _____		

www.s2scientific.com



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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS01
1410118-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	1410161	10/15/14	10/15/14	8015M	

Date Sampled: 10/14/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS02
1410118-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:02

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1410161	10/15/14	10/15/14	8015M	

Date Sampled: 10/14/14 12:02

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:02

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:02

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	21-167		"	"	"	"	

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS03
1410118-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	320	50	mg/kg	1	1410161	10/15/14	10/15/14	8015M	

Date Sampled: 10/14/14 12:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.010	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS04
1410118-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1410161	10/15/14	10/15/14	8015M	

Date Sampled: 10/14/14 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Summit Scientific

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS05
1410118-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	870	50	mg/kg	1	1410161	10/15/14	10/16/14	8015M	

Date Sampled: 10/14/14 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		115 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.074	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.4	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.9 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS06
1410118-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2400	50	mg/kg	1	1410161	10/15/14	10/16/14	8015M	

Date Sampled: 10/14/14 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		151 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.33	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	27	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.3 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.9 %	21-167		"	"	"	"	

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LT Environmental, Inc.
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Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS07
1410118-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	220	50	mg/kg	1	1410161	10/15/14	10/16/14	8015M	

Date Sampled: 10/14/14 12:12

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: 10/14/14 12:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.017	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

SS08
1410118-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/14/14 12:14

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4200	50	mg/kg	1	1410161	10/15/14	10/16/14	8015M	

Date Sampled: 10/14/14 12:14

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		419 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/14/14 12:14

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.16	0.010	mg/kg	1	1410160	10/15/14	10/16/14	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	12	0.50	"	"	"	"	"	"	

Date Sampled: 10/14/14 12:14

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.9 %	21-167		"	"	"	"	

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1410161 - EPA 3550A

Blank (1410161-BLK1)				Prepared & Analyzed: 10/15/14							
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1410161-BS1)				Prepared & Analyzed: 10/15/14							
C10-C28 (DRO)	547	50	mg/kg	501	109	73-134					
Matrix Spike (1410161-MS1)				Source: 1410106-01		Prepared & Analyzed: 10/15/14					
C10-C28 (DRO)	557	50	mg/kg	497	ND	112	50-148				
Matrix Spike Dup (1410161-MSD1)				Source: 1410106-01		Prepared & Analyzed: 10/15/14					
C10-C28 (DRO)	609	50	mg/kg	499	ND	122	50-148	9.04	13		

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: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

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 1410160 - EPA 5030 Soil MS

Blank (1410160-BLK1)

Prepared & Analyzed: 10/15/14

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0423</i>		<i>"</i>	<i>0.0396</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>21-167</i>			

LCS (1410160-BS1)

Prepared: 10/15/14 Analyzed: 10/16/14

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0984	0.0020	"	0.100		98.4	58-130			
Toluene	0.103	0.0050	"	0.100		103	61-134			
Ethylbenzene	0.106	0.0050	"	0.0992		107	74-139			
m,p-Xylene	0.214	0.010	"	0.200		107	73-137			
o-Xylene	0.106	0.0050	"	0.0984		108	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0430</i>		<i>"</i>	<i>0.0396</i>		<i>109</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>21-167</i>			

Matrix Spike (1410160-MS1)

Source: 1410117-01

Prepared: 10/15/14 Analyzed: 10/16/14

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0876	0.0020	"	0.0994	ND	88.1	30-131			
Toluene	0.0854	0.0050	"	0.0994	ND	86.0	30-134			
Ethylbenzene	0.0876	0.0050	"	0.0986	ND	88.9	22-153			
m,p-Xylene	0.173	0.010	"	0.198	ND	87.2	10-159			
o-Xylene	0.0892	0.0050	"	0.0978	ND	91.2	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0431</i>		<i>"</i>	<i>0.0394</i>		<i>110</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0398</i>		<i>99.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0398</i>		<i>97.8</i>	<i>21-167</i>			

Summit Scientific

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

Project: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

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 1410160 - EPA 5030 Soil MS

Matrix Spike Dup (1410160-MSD1)	Source: 1410117-01			Prepared: 10/15/14	Analyzed: 10/16/14					
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158				42
Benzene	0.0853	0.0020	"	0.0962	ND	88.7	30-131	2.64		34
Toluene	0.0837	0.0050	"	0.0962	ND	87.1	30-134	2.01		30
Ethylbenzene	0.0848	0.0050	"	0.0954	ND	88.9	22-153	3.29		24
m,p-Xylene	0.166	0.010	"	0.192	ND	86.5	10-159	4.12		68
o-Xylene	0.0874	0.0050	"	0.0946	ND	92.4	31-151	2.03		38
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0381</i>		<i>108</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0385</i>		<i>99.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0376</i>		<i>"</i>	<i>0.0385</i>		<i>97.9</i>	<i>21-167</i>			

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: BBC - Circle B/Merrit Pad

Project Number: 0273-14029
Project Manager: Rob Rebel

Reported:
10/19/14 00:08

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

November 12, 2014

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Circle B/Merrit Pad

Project Number - [none]

Attached are your analytical results for Circle B/Merrit Pad received by Origins Laboratory, Inc. November 07, 2014. This project is associated with Origins project number X411073-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Rob Rebel
Project Number: [none]
Project: Circle B/Merrit Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05	X411073-01	Soil	November 7, 2014 11:25	11/07/2014 12:59
SS06	X411073-02	Soil	November 7, 2014 11:30	11/07/2014 12:59
SS08	X411073-03	Soil	November 7, 2014 11:35	11/07/2014 12:59

Origins Laboratory, Inc.



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.

Noelle Doyle Mathis, President

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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Meritt Pad

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 411073

Client: LTE

Client Project ID: Circle B/Meritt Pad

Checklist Completed by: Jeff Smith

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/7/14

Airbill #: 123

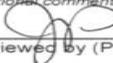
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 12.4 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 12345

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ SO ₂ -NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.


 Reviewed by (Project Manager)

11-10-14
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

SS05

11/7/2014 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X411073-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	87.5	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
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<i>Surrogate: o-Terphenyl</i>	85.7 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	10.0	mg/kg	50	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.100	"	"	"	"	"
Toluene	ND	0.100	"	"	"	"	"
Ethylbenzene	ND	0.100	"	"	"	"	"
Xylenes, total	ND	0.100	"	"	"	"	"
Napthalene	ND	0.400	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.9 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	99.5 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	97.8 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

SS06

11/7/2014 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X411073-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	107	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
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<i>Surrogate: o-Terphenyl</i>	105 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	97.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

SS08

11/7/2014 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X411073-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	63.3	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
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<i>Surrogate: o-Terphenyl</i>	90.5 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/12/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	0.002	0.002	"	"	"	"	"
Xylenes, total	0.002	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.1 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	97.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10006 - EPA 5030 (soil)

Blank (4K10006-BLK1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>63</i>		<i>ug/kg</i>	<i>62.5</i>	<i>101</i>	<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>64</i>		<i>"</i>	<i>62.5</i>	<i>102</i>	<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>62</i>		<i>"</i>	<i>62.5</i>	<i>100</i>	<i>100</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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.

Noelle Doyle Mathis, President

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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10006 - EPA 5030 (soil)

LCS (4K10006-BS1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Benzene	0.219	0.002	mg/kg	0.200		110	70-130			
Toluene	0.213	0.002	"	0.200		107	70-130			
Ethylbenzene	0.210	0.002	"	0.200		105	70-130			
m,p-Xylene	0.414	0.004	"	0.400		104	70-130			
o-Xylene	0.216	0.002	"	0.200		108	70-130			
Naphthalene	0.247	0.008	"	0.200		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10006 - EPA 5030 (soil)

Matrix Spike (4K10006-MS1)	Source: X411073-03			Prepared: 11/10/2014 Analyzed: 11/10/2014				QM-07
Benzene	0.203	0.002	mg/kg	0.200	ND	102	70-130	
Toluene	0.200	0.002	"	0.200	ND	100	70-130	
Ethylbenzene	0.191	0.002	"	0.200	0.002	94.6	70-130	
m,p-Xylene	0.378	0.004	"	0.400	ND	94.4	70-130	
o-Xylene	0.192	0.002	"	0.200	0.002	95.0	70-130	
Naphthalene	0.201	0.008	"	0.200	0.002	99.6	70-130	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.9	70-130	
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130	
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130	

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10006 - EPA 5030 (soil)

Matrix Spike Dup (4K10006-MSD1)	Source: X411073-03		Prepared: 11/10/2014 Analyzed: 11/10/2014				QM-07		
Benzene	0.218	0.002	mg/kg	0.200	ND	109	70-130	6.74	20
Toluene	0.208	0.002	"	0.200	ND	104	70-130	3.94	20
Ethylbenzene	0.207	0.002	"	0.200	0.002	102	70-130	7.87	20
m,p-Xylene	0.397	0.004	"	0.400	ND	99.2	70-130	4.94	20
o-Xylene	0.204	0.002	"	0.200	0.002	101	70-130	6.13	20
Naphthalene	0.192	0.008	"	0.200	0.002	95.1	70-130	4.56	20
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.0	70-130		
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130		
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130		

Origins Laboratory, Inc.



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

Rob Rebel
 Project Number: [none]
 Project: Circle B/Merrit Pad

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10005 - EPA 3580

Blank (4K10005-BLK1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	52		g	50.0		104	59-131			

LCS (4K10005-BS1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28)	902	50.0	mg/kg	1000		90.2	64-121			
Surrogate: o-Terphenyl	41		g	50.0		81.2	59-131			

Matrix Spike (4K10005-MS1)

Source: X411073-03

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28)	991	50.0	mg/kg	1000	63.3	92.8	53-125			
Surrogate: o-Terphenyl	43		g	50.0		86.9	59-131			

Matrix Spike Dup (4K10005-MSD1)

Source: X411073-03

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28)	1100	50.0	mg/kg	1000	63.3	103	53-125	10.2	20	
Surrogate: o-Terphenyl	48		g	50.0		96.9	59-131			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: [none]
Project: Circle B/Merrit Pad

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President