

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



Table with 4 columns (DE, ET, GE, ES) and 1 row.

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.)

Form with fields for OGCC Operator Number, Name of Operator, Address, City, State, Zip, Contact Name, Phone, Fax, API Number, Well/Facility Name, Location, County, Field Name, and Federal/Indian/State Lease Number.

Complete the Attachment Checklist

OP OGCC

General Notice

Large form section containing checkboxes for Change of Location, Change Spacing Unit, Change Operator, Abandoned Location, Spud Date, Subsequent Report of Stage, Reclamation, and Request for Confidential Status.

Technical Engineering/Environmental Notice

Form section for technical notices including Intent to Recomplete, Change Drilling Plans, Request to Vent or Flare, and E&P Waste Disposal.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Scott Ghan Date: 1/26/2011 Email: sghan@billbarrettcorp.com

COGCC Approved: [Signature] Title: Env. Sup. Date: 5/12/11

CONDITIONS OF APPROVAL, IF ANY:

Per my w/ CDPH on 5/12/11

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: <u>10071</u> API Number: <u>05-083-06637</u>
2. Name of Operator: <u>Bill Barrett Corporation</u> OGCC Facility ID # _____
3. Well/Facility Name: <u>KOSKIE-BRUMLEY DRAW</u> Well/Facility Number: <u>15H-27-38-16</u>
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWSE 27 38N 16W N PM</u>

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Bill Barrett Corporation (BBC) respectfully requests a variance pursuant to Rule 502 in consideration of arsenic concentrations that exceed COGCC Table 910-1 concentration levels and background concentrations. BBC has conducted extensive mixing with native fill in an effort to stabilize the cuttings for burial as well as reduce metals concentrations to meet Table 910-1 levels. Currently, the arsenic concentration in the mixed cuttings is 2.68 mg/kg, while the background concentration is as high as 2.33 mg/kg. This results in a mixed cuttings arsenic concentration exceedance of only 0.35 mg/kg. Given the elevated background arsenic concentrations (2.33 mg/kg) in this area, and the fact that the cuttings mixture is buried beneath a minimum of three feet of native fill, the remaining level of arsenic in the buried cuttings does not represent a significant risk to human health or the environment.

Subsequent mixing of the cuttings will inevitably delay closure of the pit as well as produce a surplus of mixed soil at the site, which will need to be hauled off for reuse on other pads or hauled for disposal at a high cost. Please see the attached letter for details regarding pit closure activities and recommendation for a Form 4 variance request.



January 25, 2011

Mr. Scott Ghan
Bill Barrett Corporation
112 Red Feather Trail
Silt, CO 81652

**Re: Documentation of Field Activities and Sample Results for the
Koskie 15H-27 Pad Drilling/Completions Pit Closure (05-083-06637)
SWSE 27 T38N R16W N PM**

Dear Mr. Ghan:

LT Environmental, Inc. (LTE) was contracted by Bill Barrett Corporation (BBC) to provide environmental sampling activities at the above-referenced site. The scope of work consisted of drill cuttings sampling, background soil sampling, laboratory analysis, and documentation of field activities.

On March 31, 2009, an LTE representative collected a drill cuttings sample prior to pit closure activities. The drilling/completions pit consisted of mixed drill cuttings remaining from the drilling process. LTE did not observe any discoloration, sheen, or odor that would indicate the pit had been adversely impacted by drilling activities.

Cuttings samples were collected from three separate locations in the pit and composited into one sample (Koskie 15H-27 Composite). The drill cuttings sample was submitted to a contract laboratory for analysis of the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 metals by Environmental Protection Agency (EPA) Method 6010B, electrical conductivity (EC) by United States Department of Agriculture (USDA) handbook saturated paste method, pH by USDA handbook saturated paste method, sodium adsorption ratio (SAR) by calculation, and total petroleum hydrocarbons (TPH) by EPA Modified Method 8015. LTE also collected a representative background soil sample (Koskie 15H-27 BG) from beyond the pad surface that was submitted for analysis of COGCC Table 910-1 metals, EC, pH, and SAR.

Laboratory analytical results indicated that TPH and COGCC Table 910-1 metals concentrations (except for arsenic) in the drill cuttings sample were in compliance with COGCC Table 910-1 concentration levels. Arsenic, EC, pH, and SAR concentrations exceeded COGCC Table 910-1 concentration levels.

The arsenic concentration for the drill cuttings sample exceeded the COGCC Table 910-1 concentration level of 0.39 milligrams per kilogram (mg/kg), at 18.7 mg/kg. The arsenic concentration for the background sample was non-detect to the lowest laboratory reporting limit of 10 mg/kg.



According to BBC personnel, the sampled drill cuttings were mixed with native soil and buried at a minimum of 3-feet below ground surface and 3-feet above the static water level. The 3-foot soil cap will be composed of native soils from the area. Frequently asked question number 31 on the COGCC website explains that the COGCC will apply the Table 910-1 concentration levels for EC, pH, and SAR only to soils that are within 3 feet of the ground surface. As such, the COGCC requires that materials with elevated EC, pH, or SAR concentrations be buried under a minimum of 3 feet of cover and remain a minimum of 3 feet above the static water level. Although EC, pH, and SAR are parameters used to ensure proper reclamation of disturbed areas, limited exceedances of these parameters will not likely affect reclamation, as the mixed drill cuttings are to be buried below the vegetative root zone.

Following mixing activities, LTE collected a composite mixed drill cuttings sample on August 12, 2010. The second drill cuttings sample (Koskie 15H-27 Comp) was submitted for analysis of arsenic. Laboratory analytical results indicated the arsenic concentration for the second drill cuttings sample was 2.68 mg/kg, which exceeds the background arsenic concentration level by only 0.35 mg/kg.

LTE also collected six background soil samples on August 12 and 25, 2010 (Koskie 15H-27 BG01, BG02, BG03, BG04, FILL-1, and FILL-2) to determine the variability of the background arsenic concentrations. Background samples Koskie 15H-27 FILL-1 and FILL-2 were collected from the two remaining locations of potential backfill material. Each of the background soil samples were also submitted for analysis of arsenic.

This background arsenic level measured in a sample taken from native material that could be used to mix with the drill cuttings in an attempt to further lower the arsenic concentration is only 0.35 mg/kg less than the cuttings arsenic concentration. As the concentrations observed in the mixed cuttings and native sample differ by only 13%, additional mixing is unlikely to significantly lower the arsenic concentration of the cuttings. Due to the extremely low differential in arsenic concentrations between the cuttings mixture and native background samples, variability in soil sampling, and the potential for up to a 20% laboratory error, LTE believes that the arsenic concentration documented in the mixed cuttings is within an acceptable range of naturally-occurring background values and likely does not represent a significant change in risk to human health or the environment. As such, LTE believes that the arsenic concentration documented in the mixed cuttings is within an acceptable range of naturally-occurring background values. As such, LTE recommends BBC request a variance from the COGCC to allow the cuttings to be buried in place.

A generalized depiction of the reserve pit and sample locations is shown on the attached Figure 1. The soil sample analytical results are summarized in Table 1. A copy of the laboratory analytical reports is included as Appendix A.

Please call us at (970) 285-9985 if you have any questions regarding this letter report or require additional information.



Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Asher Weinberg'.

Asher Weinberg
Staff Environmental Scientist

A handwritten signature in black ink, appearing to read 'Brian Dodek'.

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

Attachments (3):

Table 1 – Soil Analytical Results

Figure 1 – Site Sketch

Appendix A – Laboratory Analytical Reports

TABLE



TABLE 1
SOIL ANALYTICAL RESULTS
KOSKIE 15H-27
MONTEZUMA COUNTY, COLORADO
BILL BARRETT CORPORATION

PARAMETER	COGCC STANDARD	UNITS	KOSKIE 15H-27 BG	KOSKIE 15H-27 COMP	KOSKIE 15H-27 COMP	KOSKIE 15H-27 BG01	KOSKIE 15H-27 BG02	KOSKIE 15H-27 BG03	KOSKIE 15H-27 BG04	KOSKIE 15H-27 FILL-1	KOSKIE 15H-27 FILL-2
Sample Date			3/31/2009	3/31/2009	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/25/2010	8/25/2010
Sample Type			Background	Drill Cuttings	Drill Cuttings	Background	Background	Background	Background	Background	Background
Arsenic	0.39	mg/kg	<10.0	18.7	2.68	1.84	2.08	1.87	1.94	1.93	2.33
Barium	15,000	mg/kg	2,030	2,490	--	--	--	--	--	--	--
Boron		mg/kg	17.0	29.8	--	--	--	--	--	--	--
Cadmium	70	mg/kg	<1.0	<1.0	--	--	--	--	--	--	--
Chromium	120,000	mg/kg	14.8	40.6	--	--	--	--	--	--	--
Copper	3,100	mg/kg	8.6	9.98	--	--	--	--	--	--	--
Lead	400	mg/kg	10.3	<5.0	--	--	--	--	--	--	--
Mercury	23	mg/kg	<0.1	<0.1	--	--	--	--	--	--	--
Nickel	1,600	mg/kg	12.7	21.3	--	--	--	--	--	--	--
Selenium	390	mg/kg	<20.0	<20.0	--	--	--	--	--	--	--
Silver	390	mg/kg	<1.0	<1.0	--	--	--	--	--	--	--
Zinc	23,000	mg/kg	41.1	62.2	--	--	--	--	--	--	--
EC	4.0	mmhos/cm	1.07	74.4	--	--	--	--	--	--	--
pH	6 - 9	SU	7.55	10.8	--	--	--	--	--	--	--
Calcium		meq/L	6.24	46.6	--	--	--	--	--	--	--
Magnesium		meq/L	1.89	0.10	--	--	--	--	--	--	--
Sodium		meq/L	2.34	110	--	--	--	--	--	--	--
SAR	12	unitless	1.16	22.9	--	--	--	--	--	--	--
TPH-GRO		mg/kg	--	10.1	--	--	--	--	--	--	--
TPH-DRO		mg/kg	--	67.8	--	--	--	--	--	--	--
TPH-DRO Extended		mg/kg	--	<10.0	--	--	--	--	--	--	--
Total TPH	500	mg/kg	--	77.9	--	--	--	--	--	--	--

NOTES

meq/L - milliequivalents per liter

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter in saturated paste extract

SU - standard unit on saturated paste

EC - electrical conductivity

SAR - sodium adsorption ratio

TPH-DRO - total petroleum hydrocarbons diesel range organics

TPH-DRO Extended - total petroleum hydrocarbons oil range organics

TPH-GRO - total petroleum hydrocarbons gasoline range organics

Total TPH - combination of TPH-DRO, TPH-DRO Extended, and TPH-GRO

< - less than the stated reporting limit

-- - not analyzed

BOLD - indicates result is above the Colorado Oil and Gas Conservation Commission Standard



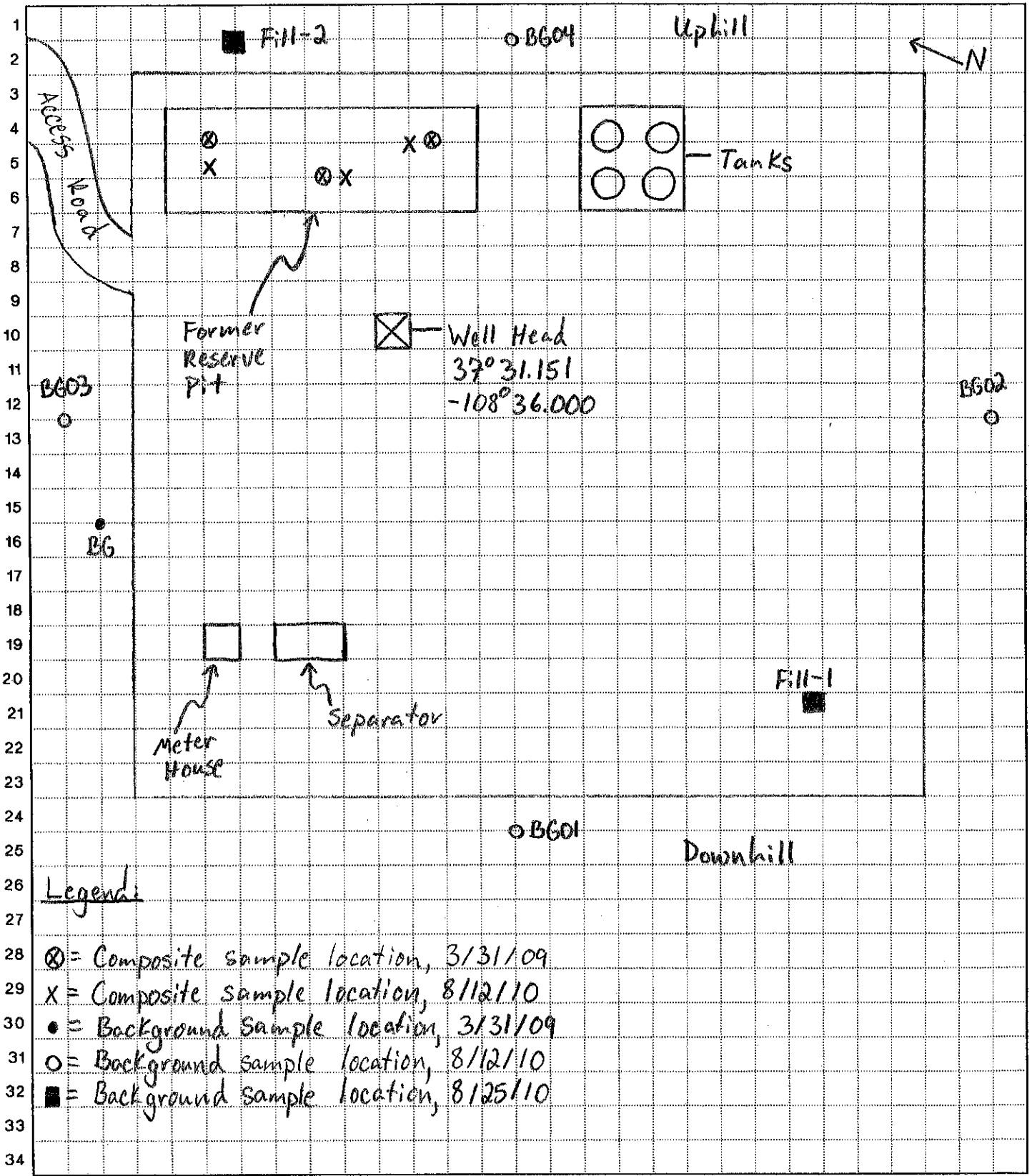
FIGURE





PROJECT Bill Barrett Corp. Cuttings Sampling DATE 12-28-10
 PROJECT MANAGER B. Dodek CONT. No. _____
 JOB No. BBC 1019 BY D. Girtin CHK'D _____
 LOCATION Koskie 15H-27 SHEET No. 1 OF 1

96L T0038 10/1997



Legend:

- \otimes = Composite sample location, 3/31/09
- \times = Composite sample location, 8/12/10
- \bullet = Background sample location, 3/31/09
- \circ = Background sample location, 8/12/10
- \blacksquare = Background sample location, 8/25/10

APPENDIX A
LABORATORY ANALYTICAL REPORTS



GAL ID No.: 903-150

April 21, 2009

LT Environmental
PO Box 874
Bayfield, CO 81122
Attention: Travis Laverty

Project Name: Barrett Soil
Project Number: BBC0901
Date Received: 03/31/09

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, 18th & 19th editions, and Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020.

Samples were received by Green Analytical Laboratories in good condition on 03/31/09.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

Debbie Zufelt
Laboratory Manager

Enclosure

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
 PO Box 874
 Bayfield, CO 81122
 Attention: Travis Laverty

GAL I.D.: 903-150-03

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H BG

Sample Date: 03/31/09

Sample Matrix: Soil

Units: mg/kg

RCRA Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE	
		LIMIT	RESULT		ANALYZED	ANALYST
Arsenic	6010B	10.0	<10.0	100	04/08/09	jm
Barium	6010B	1.0	2030	100	04/08/09	jm
Boron	6010B	10.0	17.0	100	04/08/09	jm
Cadmium	6010B	1.0	<1.0	100	04/08/09	jm
Chromium	6010B	1.0	14.8	100	04/08/09	jm
Copper	6010B	2.0	8.6	100	04/08/09	jm
Lead	6010B	5.0	10.3	100	04/08/09	jm
Mercury	7471A	0.1	<0.1	500	04/09/09	jm
Nickel	6010B	2.0	12.7	100	04/08/09	jm
Selenium	6010B	20.0	<20.0	100	04/08/09	jm
Silver	6010B	1.0	<1.0	100	04/08/09	jm
Zinc	6010B	5.0	41.1	100	04/08/09	jm

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
PO Box 874
Bayfield, CO 81122
Attention: Travis Laverty

GAL I.D.: 903-150-03

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H BG

Sample Date: 03/31/09

Sample Matrix: Soil

Laboratory Report

RESULTS

PARAMETER	REPORT			UNITS
	METHOD	LIMIT	RESULT	
EC	2510B	1.0	1.07	nmho/cm on Sat. Paste Ex
pH	150.1	NA	7.55	SU on Sat. Paste
Calcium	200.7	0.5	6.24	meq/L
Magnesium	200.7	0.5	1.89	meq/L
Sodium	200.7	0.5	2.34	meq/L
SAR	Calc.		1.16	

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
PO Box 874
Bayfield, CO 81122
Attention: Travis Laverty

GAL I.D.: 903-150-03

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H BG

Sample Date: 03/31/09

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS
		LIMIT	RESULT		
TPHGRO	8015	10	Attached	1	mg/kg
TPHDRO	8015	10	Attached	1	mg/kg
TPHDROExtended	8015	10	Attached	1	mg/kg

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
 PO Box 874
 Bayfield, CO 81122
 Attention: Travis Laverty

GAL I.D.: 903-150-04

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H Composite

Sample Date: 03/31/09

Sample Matrix: Soil

Units: mg/kg

RCRA Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE	
		LIMIT	RESULT		ANALYZED	ANALYST
Arsenic	6010B	10.0	18.7	100	04/08/09	jm
Barium	6010B	1.0	2490	100	04/08/09	jm
Boron	6010B	10.0	29.8	100	04/08/09	jm
Cadmium	6010B	1.0	<1.0	100	04/08/09	jm
Chromium	6010B	1.0	40.6	100	04/08/09	jm
Copper	6010B	2.0	9.98	100	04/08/09	jm
Lead	6010B	5.0	<5.0	100	04/08/09	jm
Mercury	7471A	0.1	<0.1	500	04/09/09	jm
Nickel	6010B	2.0	21.3	100	04/08/09	jm
Selenium	6010B	20.0	<20.0	100	04/08/09	jm
Silver	6010B	1.0	<1.0	100	04/08/09	jm
Zinc	6010B	5.0	62.2	100	04/08/09	jm

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
PO Box 874
Bayfield, CO 81122
Attention: Travis Laverty

GAL I.D.: 903-150-04

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H Composite

Sample Date: 03/31/09

Sample Matrix: Soil

Laboratory Report

RESULTS

PARAMETER	REPORT			UNITS
	METHOD	LIMIT	RESULT	
EC	2510B	1.0	74.4	nmho/cm on Sat. Paste Ex
pH	150.1	NA	10.8	SU on Sat. Paste
Calcium	200.7	0.5	46.6	meq/L
Magnesium	200.7	0.5	0.10	meq/L
Sodium	200.7	0.5	110	meq/L
SAR	Calc.		22.9	

Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

LT Environmental
PO Box 874
Bayfield, CO 81122
Attention: Travis Laverty

GAL I.D.: 903-150-04

Date Received: 03/31/09

Date Reported: 04/21/09

QC Batches:

PROJECT NAME: Barrett Soil
PROJECT NUMBER: BBC0901
SAMPLE I.D.: Koskie 15H Composite

Sample Date: 03/31/09

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS
		LIMIT	RESULT		
TPHGRO	8015	10	Attached	1	mg/kg
TPHDRO	8015	10	Attached	1	mg/kg
TPHDROExtended	8015	10	Attached	1	mg/kg



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
GREEN ANALYTICAL LABORATORIES, INC.
ATTN: DEBBIE ZUFELT
75 SUTTLE STREET
DURANGO, CO 81303

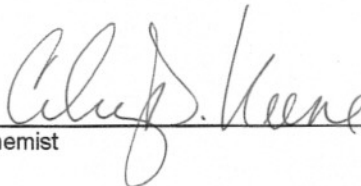
Receiving Date: 04/02/09
Reporting Date: 05/05/09*
Project Number: 903-150-02, 04, 07, 09*
Project Name: LTE
Project Location: NOT GIVEN

Sampling Date: 03/31/09
Sample Type: SOIL/SEDIMENT
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: AB

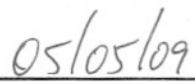
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO EXT. (>C ₂₈ -C ₃₅) (mg/kg)
---------	-----------	--	--	---

ANALYSIS DATE:		04/03/09	04/03/09	04/03/09
H17181-2	KOSKIE 13H-COMP.	74.2	181	<10.0
H17181-4	KOSKIE 15H-COMP.	10.1	67.8	<10.0
H17181-7	NEELEY 13H-7-COMP.	73.6	534	49.4
H17181-9	JOHNSON 16H-12-COMP.	12.0	390	26.6
Quality Control		557	554	-
True Value QC		500	500	-
% Recovery		111	111	-
Relative Percent Difference		3.9	9.2	-

METHODS: TPH GRO & DRO - EPA SW-846 8015 M
*Revised Report



Chemist



Date

H17181 TPHE GAL



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
GREEN ANALYTICAL LABORATORIES, INC.
ATTN: DEBBIE ZUFELT
75 SUTTLE STREET
DURANGO, CO 81303

Receiving Date: 04/02/09
Reporting Date: 05/13/09
Project Number: 903-150-02, 07, 09*
Project Name: LTE
Project Location: NOT GIVEN

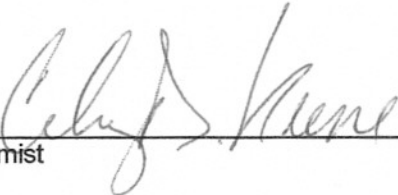
Sampling Date: 03/31/09*
Sample Type: SOIL/SEDIMENT
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		05/13/09	05/13/09	05/13/09	05/13/09
H17181-2	KOSKIE 13H-COMP.	0.065	0.017	<0.050	0.614
H17181-7	NEELEY 13H-7-COMP.	<0.050	0.086	<0.050	<0.300
H17181-9	JOHNSON 16H-12-COMP.	0.081	0.301	0.082	0.825
Quality Control		0.053	0.049	0.051	0.159
True Value QC		0.050	0.050	0.050	0.150
% Recovery		106	98.0	102	106
Relative Percent Difference		1.8	1.9	11.5	1.2

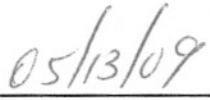
METHODS: BTEX - SW-846 8021B.

*Analyzed outside EPA recommended hold time of 14 days.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.



Chemist



Date

H17181 BTEX GAL



CHAIN OF CUSTODY RECORD

Page ___ of ___

Client: GREEN ANALYTICAL
 Contact: DEBBIE ZUFELT
 Address: 75 SUTTLE ST
DURANGO, CO 81303
 Phone Number: 970-247-4220
 FAX Number: 970-247-4227

NOTES:
 1) Ensure proper container packaging.
 2) Ship samples promptly following collection.
 3) Designate Sample Reject Disposition.
 PO# GA09-071
 Project Name: LTE

Table 1. - Matrix Type	
1 = Surface Water, 2 = Ground Water	
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil	
6 = Waste, 7 = Other (Specify) _____	

FOR GAL USE ONLY
 GAL JOB #

Samplers Signature: _____

PLEASE CALL WITH ANY QUESTIONS

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227		Analyses Required										Comments			
Address: 75 Suttle Street, Durango, CO 81303															
Sample ID	Collection		Miscellaneous			Preservative(s)					Full TPH				
	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4		NAOH	Other (Specify)		
H17181-															
1. Koskie 13H-BG	3-31-09	1115	TL	3	1		X								903-150-01
2. Koskie 13H-Comp		1125/1130			2									X	Please Composite -02
3. Koskie 15H-BG		1155			1										-03
4. Koskie 15H-Comp		1200/1205 1250			3										Please Composite -04
5. Fosnot 13H-6-BG		1300			1										-05
6. Neeley 13H-7-BG		1315			1										-06
7. Neeley 13H-7-Comp		1320/1325			2									X	Please Composite -07
8. Johnson 16H ¹² -BG		1335			1										-08
9. Johnson 16H-12-Comp		1337/1340			2									X	Please Composite -09
10.															

Relinquished by: Debbie Zufelt Date: 4-1-09 Time: 1600 Received by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: Chris Jones Date: 4/2/09 Time: 10:30

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

* Client requested revised report. Analyses added 5/5/09 ch 7.0 °C #26

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 19, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BBC - Koskie 15H-27

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/10 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
Project Manager: Brian Dodek

Reported:
08/19/10 10:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Koskie 15H-27 Comp	R008068-01	Soil	08/12/10 16:18	08/16/10 10:30
Koskie 15H-27 BG01	R008068-02	Soil	08/12/10 16:24	08/16/10 10:30
Koskie 15H-27 BG02	R008068-03	Soil	08/12/10 16:22	08/16/10 10:30
Koskie 15H-27 BG03	R008068-04	Soil	08/12/10 16:28	08/16/10 10:30
Koskie 15H-27 BG04	R008068-05	Soil	08/12/10 16:30	08/16/10 10:30

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
Project Manager: Brian Dodek

Reported:
08/19/10 10:36

Summit Scientific

2008068

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

Client: LT Environmental Inc.
Address: 4600 West 60th Ave.
City/State/Zip: Arvada, CO 80003
Phone: 303-433-9788 Fax: 303-433-1432
Sampler Name: Brooke Herb

Project Manager: Brian Dodek
E-Mail: bdodek@lternv.com
Project Name: Client 15H-27 Koskie
Project Number: BBE1019

Page 1 of 1

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)	Arsenic (6020B)	Turn Around Time (Check)		Notes:
Koskie 15H-27 <u>Comp</u>	8/12/2010	16:18	1	X				X							Notes: 5 day TAT Per Co. Anal. <i>ppm for</i>
Koskie 15H-27 <u>OSI</u>	8/12/2010	16:24	1	X				X							
Koskie 15H-27 <u>BSI</u>	8/12/2010	16:22	1	X				X							
Koskie 15H-27 <u>MS</u>	8/12/2010	16:28	1	X				X							
Koskie 15H-27 <u>SI</u>	8/12/2010	16:30	1	X				X							
Requisitioned by:	Date/Time:	8/13/10 15:00	Received by:	Date/Time:	8-16-10 10:30	Turn Around Time (Check)	Same Day	72 Hours	Standard	X	Notes:	5 day TAT Per	Co. Anal.		
Requisitioned by:	Date/Time:		Received in Lab by:	Date/Time:		Sample Integrity:	Temperature Upon Receipt:	Intact:	Yes	No					

summitscientific.com



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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
Project Manager: Brian Dodek

Reported:
08/19/10 10:36

**Koskie 15H-27 Comp
R008068-01 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/12/10 16:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.68	0.05	mg/kg	1	0081901	08/18/10	08/19/10	EPA 200.8	

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
 Project Manager: Brian Dodek

Reported:
 08/19/10 10:36

**Koskie 15H-27 BG01
 R008068-02 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/12/10 16:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.84	0.05	mg/kg	1	0081901	08/18/10	08/19/10	EPA 200.8	

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
 Project Manager: Brian Dodek

Reported:
 08/19/10 10:36

**Koskie 15H-27 BG02
 R008068-03 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/12/10 16:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.08	0.05	mg/kg	1	0081901	08/18/10	08/19/10	EPA 200.8	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: BBC - Koskie 15H-27

Project Number: BBC 1019
 Project Manager: Brian Dodek

Reported:
 08/19/10 10:36

**Koskie 15H-27 BG03
 R008068-04 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/12/10 16:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.87	0.05	mg/kg	1	0081901	08/18/10	08/19/10	EPA 200.8	

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
 Project Manager: Brian Dodek

Reported:
 08/19/10 10:36

**Koskie 15H-27 BG04
 R008068-05 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/12/10 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.94	0.05	mg/kg	1	0081901	08/18/10	08/19/10	EPA 200.8	

Summit Scientific

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LT Environmental, Inc.
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Arvada CO, 80003

Project: BBC - Koskie 15H-27

Project Number: BBC 1019
Project Manager: Brian Dodek

Reported:
08/19/10 10:36

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

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: BBC - Koskie 15H-27

Project Number: BBC 1019
Project Manager: Brian Dodek

Reported:
08/19/10 10:36

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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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 01, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BBC - Koskie 15H-27

Enclosed are the results of analyses for samples received by Summit Scientific on 08/26/10 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019.01
Project Manager: Brian Dodek

Reported:
09/01/10 10:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Koskie 15H-27 Fill-1	R008143-01	Soil	08/25/10 10:56	08/26/10 15:15
Koskie 15H-27 Fill-2	R008143-02	Soil	08/25/10 11:11	08/26/10 15:15

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019.01
Project Manager: Brian Dodek

Reported:
09/01/10 10:00

**Koskie 15H-27 Fill-1
R008143-01 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/25/10 10:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.93	0.05	mg/kg	1	0090103	08/31/10	09/01/10	EPA 200.8	

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019.01
 Project Manager: Brian Dodek

Reported:
 09/01/10 10:00

**Koskie 15H-27 Fill-2
 R008143-02 (Soil)**

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **08/25/10 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.33	0.05	mg/kg	1	0090103	08/31/10	09/01/10	EPA 200.8	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: BBC - Koskie 15H-27

Project Number: BBC 1019.01
Project Manager: Brian Dodek

Reported:
09/01/10 10:00

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

Summit Scientific

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

Project: BBC - Koskie 15H-27

Project Number: BBC 1019.01
Project Manager: Brian Dodek

Reported:
09/01/10 10:00

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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