

Page 1
FORM
4
Rev 1205State of Colorado
Oil and Gas Conservation Commission

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

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.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
6/11/2012

1. OGCC Operator Number: 10071	4. Contact Name: Mary Pobuda	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Bill Barrett Corporation	Phone: 303-312-8531	
3. Address: 1099 18th Street, Suite 2300	Fax: 303-291-0420	
City: Denver State: CO Zip: 80202		
5. API Number: 05	OGCC Facility ID Number: 428174	Survey Plat
6. Well/Facility Name: Siebring Pad	7. Well/Facility Number	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SENE, Sec. 32, TSN, R63W, 6th PM		Surface Equipmt Diagram
9. County: Weld	10. Field Name: Wattenberg	Technical Info Page
11. Federal, Indian or State Lease Number:		Other analytical results

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done	
Approximate Start Date: 6/5/12	Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Cuttings	for Spills and Releases

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

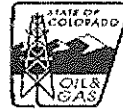
Signed: Mary Pobuda Date: 6/11/12 Email: mpobuda@billbarrettcorp.com
Print Name: Mary Pobuda Title: Permit Analyst

OGCC Approved: Carol Buja Title: FOR Date: 06/26/2012
CONDITIONS OF APPROVAL, IF ANY:

Cuttings hauled to
Moser land Farm
Non-Facility ID # 429348 ✓

John Axelson
EPS NE Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10071 API Number: _____
2. Name of Operator: Bill Barrett Corporation OGCC Facility ID # 428174
3. Well/Facility Name: Siebring 5-63 Well/Facility Number: _____
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW, Sec. 32, T5N, R63W, 6th PM

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) is submitting this sundry to notify COGCC that drill cuttings from the referenced well will be hauled beginning 06/26/12 to Moser Land Farm (NW, Sec. 26, T3N R65W).

Please see attached analytical report for testing method used and soil types.

**AUTHORIZATION AND CONSENT FORM
FOR LAND TREATMENT
OF
WATER-BASED BENTONITIC DRILLING FLUID**

In compliance with rule 907 of "rules and regulations" as established, April 1, 2009, by the Colorado Oil and Gas Conservation Commission.

OPERATING COMPANY: Bill Barrett Corporation

NAME AND LEGAL DESCRIPTION OF WASTE GENERATION SITE:

NAME: TBD

LEGAL DESCRIPTION: SEC T R $\frac{1}{4}$ / $\frac{1}{4}$

TYPE OF WASTE: ☒ SOLIDS ☒ FLUIDS

VOLUME: TBD

DATE HAULED: TBD

TRANSPORTER: WRIGHT CHOICE, INC.

SIGNATURE: [Signature]

SURFACE OWNER NAME AND LEGAL DESCRIPTION OF TREATMENT OR DISPOSAL SITE

SURFACE OWNER: John Moser A.K.A. "MOSER MUD FARM."

LEGAL DESCRIPTION: SEC 26 T 3N R 65W $\frac{1}{4}$ / $\frac{1}{4}$ NW

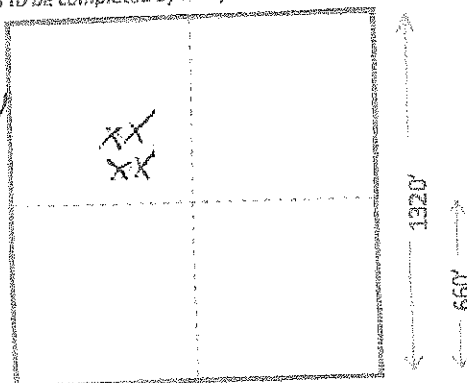
SURFACE OWNER DECLARATION AND AUTHORIZATION

I hereby declare that I am the legal owner and or legal representative of surface property as noted in this document. By signing this document I give afore noted operator and transporter authorization to apply E&P wastes on surface property, as described in this document. Furthermore I agree in accordance with 907.d.3.B.ii to incorporate E&P wastes into the native soils within 10 days of application.

SIGNATURE: [Signature] Tom Moser

See diagram delineating land treatment area. Representative laboratory analysis performed on waste material and background soil samples from land treatment area to be completed by independent contractor for Bill Barrett Corp.

SEC 26 T 3N R 65W $\frac{1}{4}$ / $\frac{1}{4}$ NW



Delineate location of land treatment area in $\frac{1}{4}$ / $\frac{1}{4}$ Section at right. Label dimensions of area.

S₂

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

Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

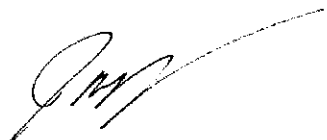
Reported:
04/26/12 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01	R204144-01	Soil	04/18/12 10:50	04/18/12 16:50
BG02	R204144-02	Soil	04/18/12 10:55	04/18/12 16:50
BG03	R204144-03	Soil	04/18/12 09:40	04/18/12 16:50
BG04	R204144-04	Soil	04/18/12 10:20	04/18/12 16:50
BG05	R204144-05	Soil	04/18/12 10:00	04/18/12 16:50
BG06	R204144-06	Soil	04/18/12 10:45	04/18/12 16:50

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - La Salle Spreadfield

Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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S.
741 Corporate Circle Suite 1 • Golden, Colorado 80401
303.277.9310 • 303.277.9311 Fax

Chester **LT Engineering, Inc.**

தமிழ்நாடு அரசு

City/State/Zip: Arvada, CO 80007

Phone: (301) 433-9788

Sender Name: D.A.

DATE _____

Project Manager: Brian Dodek

© 2000 by John Wiley & Sons, Inc.

Project Name: BBA 10 Salla Street Field

Project Name: DOE on Water Pollution
Project Number: 072213

WILSON, D. C.

[illegible]

www.s2scientific.com

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4600 West 60th Avenue
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Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

BG01
R204144-01 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	1.64	1.00	mg/kg	1	2042604	04/24/12	04/26/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.831	0.100	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020A	
Barium	25.5	0.100	"	"	"	"	"	"	
Cadmium	0.104	0.100	"	"	"	"	"	"	
Chromium	2.64	0.100	"	"	"	"	"	"	
Copper	4.41	0.500	"	"	"	"	"	"	
Lead	4.02	0.100	"	"	"	"	"	"	
Nickel	1.99	0.100	"	"	"	"	"	"	
Selenium	0.132	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	26.7	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2042003	04/20/12	04/23/12	EPA 7471B	

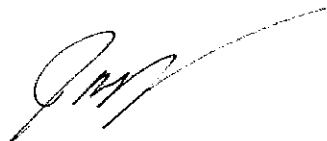
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.206	0.00100	mmhos/cm	1	2042302	04/23/12	04/23/12	SM 2510B	

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Reported:
04/26/12 10:05

BG01
R204144-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	1	2042301	04/23/12	04/23/12	EPA 9045B	

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

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	168	2.50	mg/kg	1	2041903	04/19/12	04/19/12	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	53.3	1.00	"	"	"	"	"	"	
Sodium	17.5	5.00	"	"	"	"	"	"	

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.300		units	"	2042001	04/20/12	04/23/12	"	

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

Date Sampled: 04/18/12 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2042604	04/24/12	04/26/12	3060A/7196 A	

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Project: BBC - La Salle Spreadfield
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Project Manager: Brian Dodek

Reported:
04/26/12 10:05

BG02
R204144-02 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	2.25	1.00	mg/kg	1	2042604	04/24/12	04/26/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.02	0.100	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020A	
Barium	36.1	0.100	"	"	"	"	"	"	
Cadmium	0.103	0.100	"	"	"	"	"	"	
Chromium	3.25	0.100	"	"	"	"	"	"	
Copper	5.24	0.500	"	"	"	"	"	"	
Lead	4.09	0.100	"	"	"	"	"	"	
Nickel	2.60	0.100	"	"	"	"	"	"	
Selenium	0.160	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	30.3	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2042003	04/20/12	04/23/12	EPA 7471B	

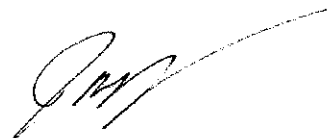
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.00100	mmhos/cm	1	2042302	04/23/12	04/23/12	SM 2510B	

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Reported:
04/26/12 10:05

BG02
R204144-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.5		pH Units	1	2042301	04/23/12	04/23/12	EPA 9045B	

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

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	113	2.50	mg/kg	1	2041903	04/19/12	04/19/12	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	37.1	1.00	"	"	"	"	"	"	
Sodium	8.34	5.00	"	"	"	"	"	"	

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.170		units	"	2042001	04/20/12	04/23/12	"	

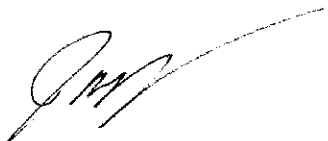
Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 04/18/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2042604	04/24/12	04/26/12	3060A/7196 A	

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Reported:
04/26/12 10:05

BG03
R204144-03 (Soil)

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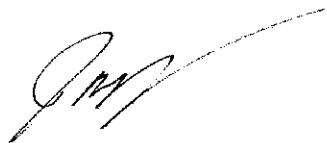
Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 04/18/12 09:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.985	0.100	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020	

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Reported:
04/26/12 10:05

BG04

R204144-04 (Soil)

Summit Scientific

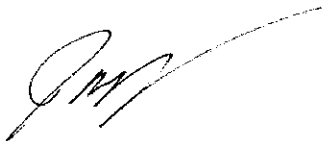
Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 04/18/12 10:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.796	0.100	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020	

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Reported:
04/26/12 10:05

BG05
R204144-05 (Soil)

Summit Scientific

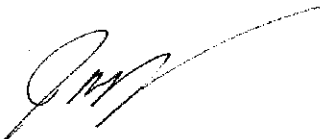
Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 04/18/12 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.971	0.100	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020	

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Project: BBC - La Salle Spreadfield

Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

BG06
R204144-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/18/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.849	0.0904	mg/kg	1	2042002	04/20/12	04/21/12	EPA 6020	

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Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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 2042002 - EPA 1311

Blank (2042002-BLK1)

Prepared: 04/20/12 Analyzed: 04/21/12

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	5.00	"

LCS (2042002-BS1)

Prepared: 04/20/12 Analyzed: 04/21/12

Arsenic	2.50	0.100	mg/kg	2.54	98.5	80-120
Arsenic	2.50	0.100	"	2.54	98.5	80-120
Barium	223	0.100	"	225	99.0	80-120
Cadmium	1.07	0.100	"	1.02	105	80-120
Chromium	10.0	0.100	"	10.0	99.8	80-120
Copper	17.1	0.500	"	20.0	85.3	80-120
Lead	66.3	0.100	"	75.0	88.4	80-120
Nickel	14.6	0.100	"	15.1	96.9	80-120
Selenium	0.968	0.100	"	1.15	84.2	80-120
Silver	0.481	0.100	"	0.500	96.2	80-120
Zinc	69.9	5.00	"	75.0	93.2	80-120

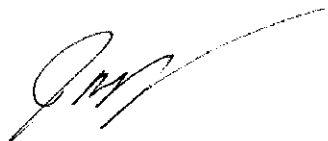
LCS Dup (2042002-BS1)

Prepared: 04/20/12 Analyzed: 04/21/12

Arsenic	2.70	0.100	mg/kg	2.54	106	80-120	7.50	20
Arsenic	2.70	0.100	"	2.54	106	80-120	7.50	20
Barium	244	0.100	"	225	109	80-120	9.28	20
Cadmium	1.12	0.100	"	1.02	110	80-120	4.58	20
Chromium	11.0	0.100	"	10.0	110	80-120	9.50	20
Copper	18.8	0.500	"	20.0	93.7	80-120	9.31	20
Lead	72.2	0.100	"	75.0	96.3	80-120	8.47	20
Nickel	15.8	0.100	"	15.1	104	80-120	7.51	20
Selenium	1.00	0.100	"	1.15	87.1	80-120	3.38	20
Silver	0.530	0.100	"	0.500	106	80-120	9.65	20
Zinc	75.5	5.00	"	75.0	101	80-120	7.74	20

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

Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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

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

Batch 2042002 - EPA 1311

Matrix Spike (2042002-MS1) Source: R204144-01 Prepared: 04/20/12 Analyzed: 04/21/12

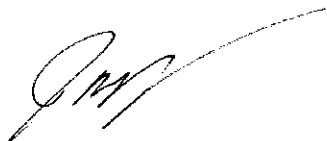
Arsenic	3.12	0.100	mg/kg	2.31	0.831	99.0	75-125		
Arsenic	3.12	0.100	"	2.31	0.831	99.0	75-125		
Barium	244	0.100	"	205	25.5	107	75-125		
Cadmium	1.07	0.100	"	0.923	0.104	104	75-125		
Chromium	12.3	0.100	"	9.14	2.64	105	75-125		
Copper	20.8	0.500	"	18.2	4.41	90.0	75-125		
Lead	67.6	0.100	"	68.2	4.02	93.2	75-125		
Nickel	14.8	0.100	"	13.7	1.99	93.4	75-125		
Selenium	1.01	0.100	"	1.05	0.132	84.2	75-125		
Silver	0.436	0.100	"	0.455	0.0129	93.1	75-125		
Zinc	88.5	5.00	"	68.2	26.7	90.5	75-125		

Matrix Spike Dup (2042002-MSD1) Source: R204144-01 Prepared: 04/20/12 Analyzed: 04/21/12

Arsenic	3.60	0.100	mg/kg	2.44	0.831	114	75-125	14.4	20
Arsenic	3.60	0.100	"	2.44	0.831	114	75-125	14.4	25
Barium	286	0.100	"	216	25.5	121	75-125	16.0	25
Cadmium	1.25	0.100	"	0.975	0.104	118	75-125	15.9	25
Chromium	13.7	0.100	"	9.66	2.64	114	75-125	10.8	25
Copper	24.6	0.500	"	19.3	4.41	105	75-125	16.6	25
Lead	79.1	0.100	"	72.1	4.02	104	75-125	15.7	25
Nickel	17.4	0.100	"	14.5	1.99	106	75-125	16.1	25
Selenium	1.11	0.100	"	1.11	0.132	88.4	75-125	9.02	25
Silver	0.515	0.100	"	0.480	0.0129	105	75-125	16.5	25
Zinc	104	5.00	"	72.1	26.7	107	75-125	16.0	25

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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

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

Batch 2042003 - EPA 7471A

Blank (2042003-BLK1)

Prepared: 04/20/12 Analyzed: 04/23/12

Mercury ND 0.0500 mg/kg

LCS (2042003-BS1)

Prepared: 04/20/12 Analyzed: 04/23/12

Mercury 0.391 0.0500 mg/kg 0.400 97.8 80-120

LCS Dup (2042003-BSD1)

Prepared: 04/20/12 Analyzed: 04/23/12

Mercury 0.404 0.0500 mg/kg 0.400 101 80-120 3.31 20

Matrix Spike (2042003-MS1)

Source: R204144-01

Prepared: 04/20/12 Analyzed: 04/23/12

Mercury 0.343 0.0500 mg/kg 0.342 0.00396 99.1 75-125

Matrix Spike Dup (2042003-MSD1)

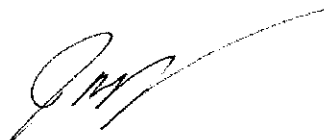
Source: R204144-01

Prepared: 04/20/12 Analyzed: 04/23/12

Mercury 0.375 0.0500 mg/kg 0.377 0.00396 98.4 75-125 8.89 20

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Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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

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

Batch 2042301 - General Preparation

Duplicate (2042301-DUP1)	Source: R204131-02			Prepared & Analyzed: 04/23/12						
pH	7.2		pH Units		7.2			0.418	20	

Duplicate (2042301-DUP2)	Source: R204131-01			Prepared & Analyzed: 04/23/12						
pH	7.1		pH Units		7.2			1.68	20	

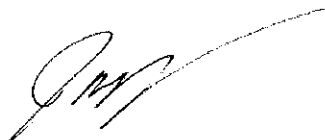
Batch 2042302 - General Preparation

Duplicate (2042302-DUP1)	Source: R204131-02			Prepared & Analyzed: 04/23/12						
Specific Conductance (EC)	6.16	0.00100	mmhos/cm		5.76			6.62	20	

Duplicate (2042302-DUP2)	Source: R204131-01			Prepared & Analyzed: 04/23/12						
Specific Conductance (EC)	5.28	0.00100	mmhos/cm		5.64			6.68	20	

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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

Summit Scientific

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

Batch 2041903 - General Preparation

Blank (2041903-BLK1)

Prepared & Analyzed: 04/19/12

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

LCS (2041903-BS1)

Prepared & Analyzed: 04/19/12

Calcium	395	2.50	mg/kg	400	98.8	70-130
Magnesium	184	1.00	"	200	92.1	70-130
Sodium	746	5.00	"	800	93.2	70-130

LCS Dup (2041903-BSD1)

Prepared & Analyzed: 04/19/12

Calcium	385	2.50	mg/kg	400	96.3	70-130	2.47	25
Magnesium	198	1.00	"	200	98.8	70-130	7.02	25
Sodium	772	5.00	"	800	96.5	70-130	3.46	25

Matrix Spike (2041903-MS1)

Source: R204144-01

Prepared & Analyzed: 04/19/12

Calcium	470	2.50	mg/kg	366	168	82.3	70-130
Magnesium	213	1.00	"	183	53.3	87.1	70-130
Sodium	695	5.00	"	732	17.5	92.5	70-130

Matrix Spike Dup (2041903-MSD1)

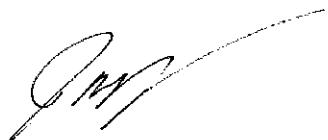
Source: R204144-01

Prepared & Analyzed: 04/19/12

Calcium	479	2.50	mg/kg	371	168	83.7	70-130	1.93	25
Magnesium	223	1.00	"	186	53.3	91.6	70-130	4.79	25
Sodium	725	5.00	"	742	17.5	95.4	70-130	4.28	25

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - La Salle Spreadfield
Project Number: 027312
Project Manager: Brian Dodek

Reported:
04/26/12 10:05

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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