

FORM
4
Rev 12/05

Page 1

State 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.)

1. OGCC Operator Number: 10071	4. Contact Name Scott Ghan	Complete the Attachment Checklist
2. Name of Operator: Bill Barrett Corporation	Phone: (970) 876-1959	
3. Address: 112 Red Feather Trail	Fax: (970) 876-0981	OP OGCC
City: Silt State: Co Zip: 81652		
5. API Number	OGCC Facility ID Number 423309	Survey Plat
6. Well/Facility Name: Kaufman Pad 3	7. Well/Facility Number 11A-30-691	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SWNW Sec 30 T6S R91W 6PM		Surface Eqmt Diagram
9. County: Garfield - #045	10. Field Name: MAMM CREEK - #52500	Technical Info Page
11. Federal, Indian or State Lease Number: NA		Other

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/SL <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 <input type="checkbox"/>
	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	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME NUMBER
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	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 type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	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"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Pit Closure
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans 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: [Signature] Date: 1/23/13 Email: sgan@billbarrettcorp.comPrint Name: [Signature] Title: [Signature]COGCC Approved: [Signature] Title: [Signature] Date: 1/23/13 1/24/13

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	10071	API Number:	
2. Name of Operator:	Bill Barrett Corporation	OGCC Facility ID #	423309
3. Well/Facility Name:	Kaufman Pad 3	Well/Facility Number:	11A-30-691
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SWNW Sec 30 T6S R91W 6PM		

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.

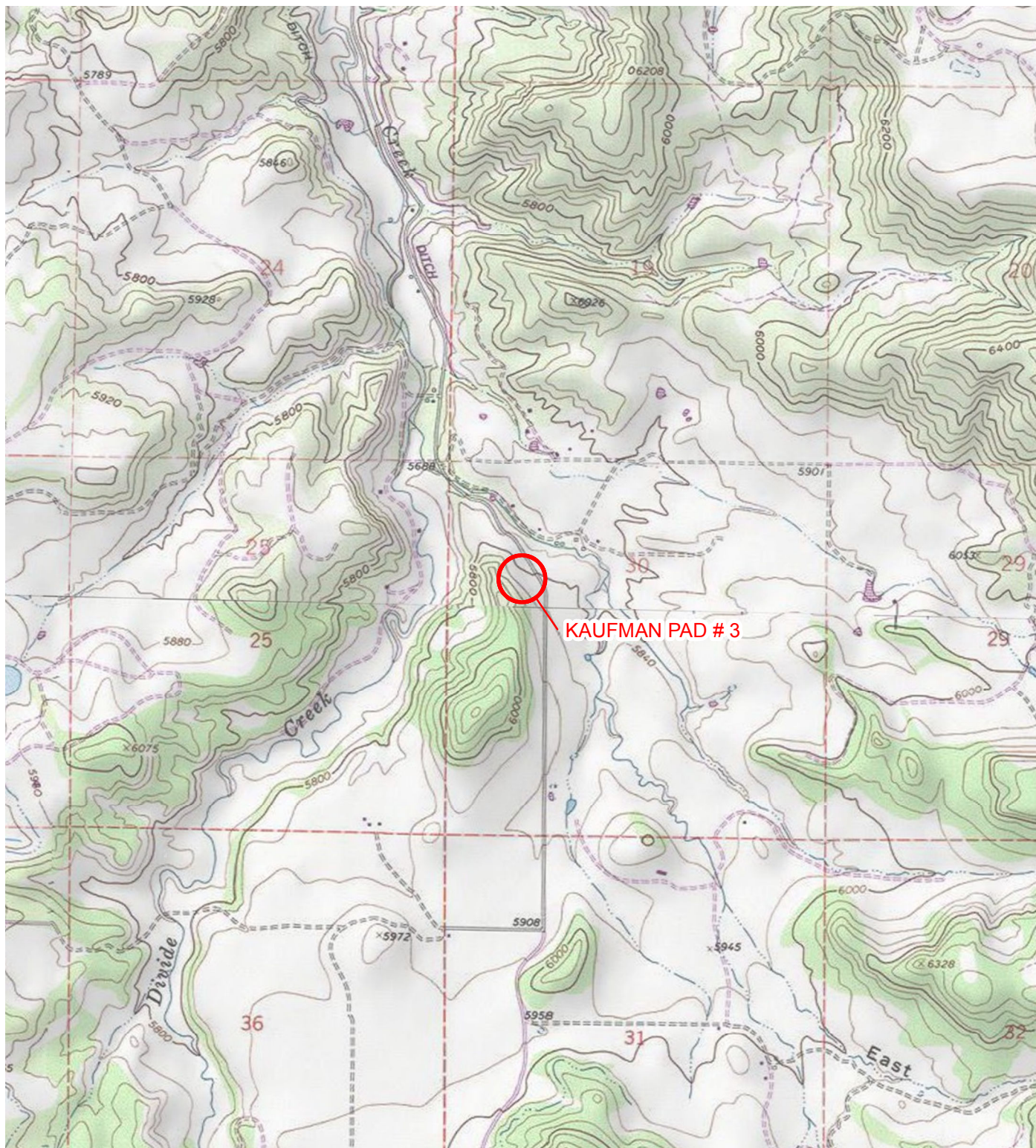
5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

BBC is currently attempting to close a completions pit at the Kaufman 3 pad (Figure 1). Recently, the final confirmation soil samples from the pit bottom exceeded the COGCC Table 910-1 concentration levels for pH and SAR. BBC is requesting authorization to close the pit with pH and SAR levels in the soil confirmation samples collected from the base of the pit slightly above the Table 910-1 concentration levels. Details concerning the soil sampling, analytical results, and depth to groundwater analysis are presented below.

On February 10, 2012, BBC collected a discreet background sample (PS01 BG) from the base of the completions pit (Figure 2) before the liner was installed. The pH level was 8.5. On December 11, 2012, BBC collected two discreet soil confirmation samples (PS01 and PS02) from the base of the pit (Figure 3) at a depth of 22 and 23 feet below ground surface. The samples were submitted for analysis of all analytes listed in COGCC Table 910-1. The analytical results indicate all analytes were compliant with COGCC Table 910-1 except pH and SAR, which exceeded the Table 910-1 concentration levels. The level of pH exceeded the Table 910-1 concentration level at 9.03 and 9.45 for PS01 and PS02, respectively. The level of SAR exceeded the Table 910-1 concentration level at sample location PS01 at 17.4. The SAR level at sample location PS02 was compliant at 7.74. Conductivity was compliant in both confirmation samples and ranged from 2.69 millimhos per centimeter (mmhos/cm) to 3.36 mmhos/cm for PS01 and PS02, respectively. Arsenic concentrations ranged from 2.07 milligrams per kilogram (mg/kg) to 1.39 mg/kg for PS01 and PS02, respectively. These concentrations are below the initial pit bottom background arsenic concentration of 2.34 mg/kg. The increase in pH, EC, and SAR concentrations are believed to be from pit liner removal activities where the liner is washed and a limited amount of the rinsate could potentially run onto the ground during liner removal and disposal. BBC contractors did not observe any holes or tears in the liner during removal. Table 1 summarizes the results from the pit bottom background sample and pit bottom confirmation samples.

Frequently Asked Question Number 32 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 these analytes relate to reclamation. 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 a minimum of 3 feet above the static water level. To ensure the base of the pit is sufficiently above the static groundwater table, LTE researched the depth to groundwater in surrounding water wells (Figure 4). These depths were used to estimate the depth to groundwater beneath the base of the completions pit. Table 2 summarizes the water well information used in this analysis. After establishing groundwater elevations in the area of the Kaufman 3 pad, the estimated depth to groundwater was calculated at 85 feet below the base of the pit. This is a more than sufficient distance to inhibit the impact to groundwater by the slight exceedance soil pH and SAR.

As BBC has demonstrated that the slight exceedances of pH and SAR occur well below the 3 foot reclamation threshold established by the COGCC and the depth of groundwater occurs well below the base of the pit, BBC is requesting authorization to close the completions pit with pH and SAR levels slightly above COGCC Table 910-1 concentration levels.



LEGEND

○ SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

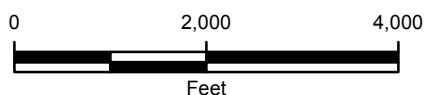


FIGURE 1
SITE LOCATION MAP
KAUFMAN PAD # 3
GARFIELD COUNTY, COLORADO

BILL BARRETT CORPORATION



FIGURE 2

Location Kaufman 3 Date 2/12/2012
Project / Client BBC / Cutting + Pit Samples

9

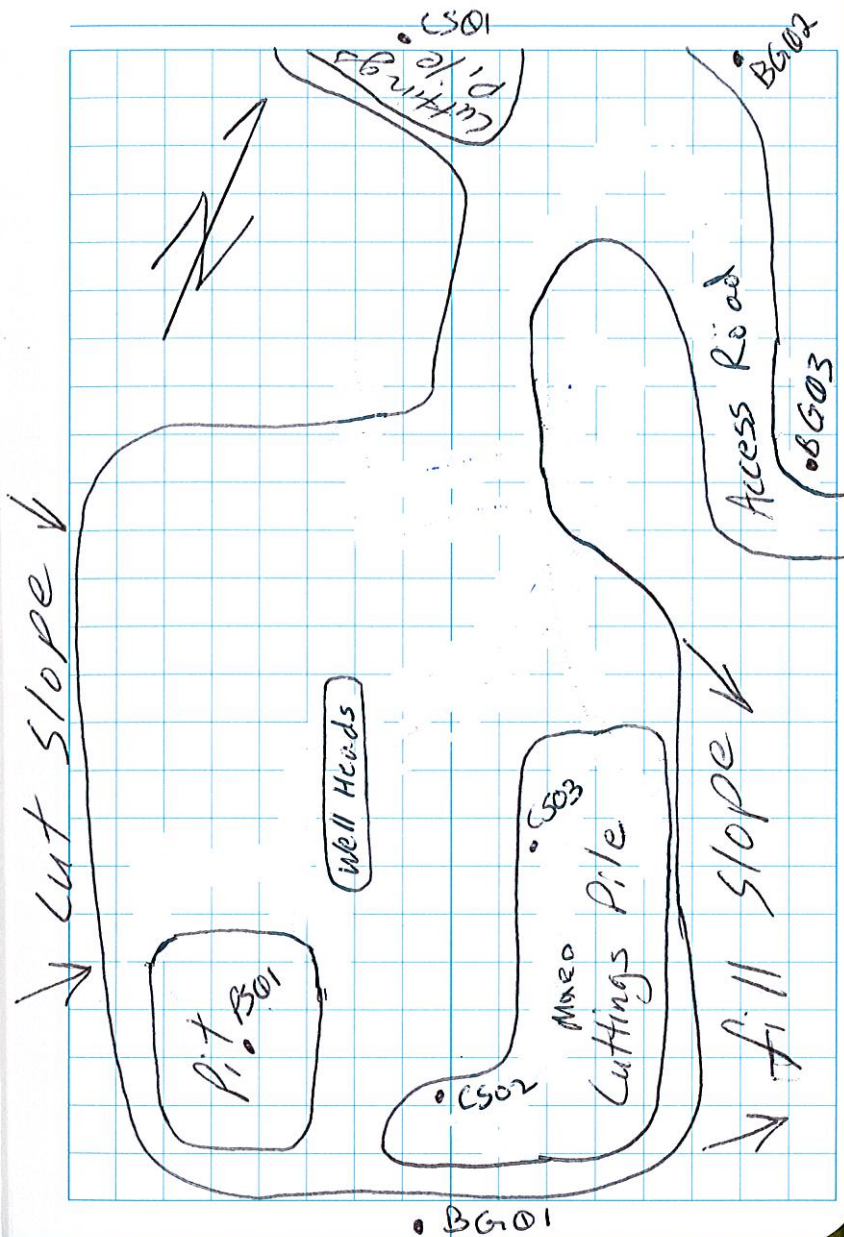


FIGURE 3



PROJECT Kashman 3
 PROJECT MANAGER _____
 JOB No. 077312008
 LOCATION _____

DATE 12/11/12
 CONT. No. _____
 BY DH CHK'D _____
 SHEET No. 1 OF 1

95L10038 10/1997

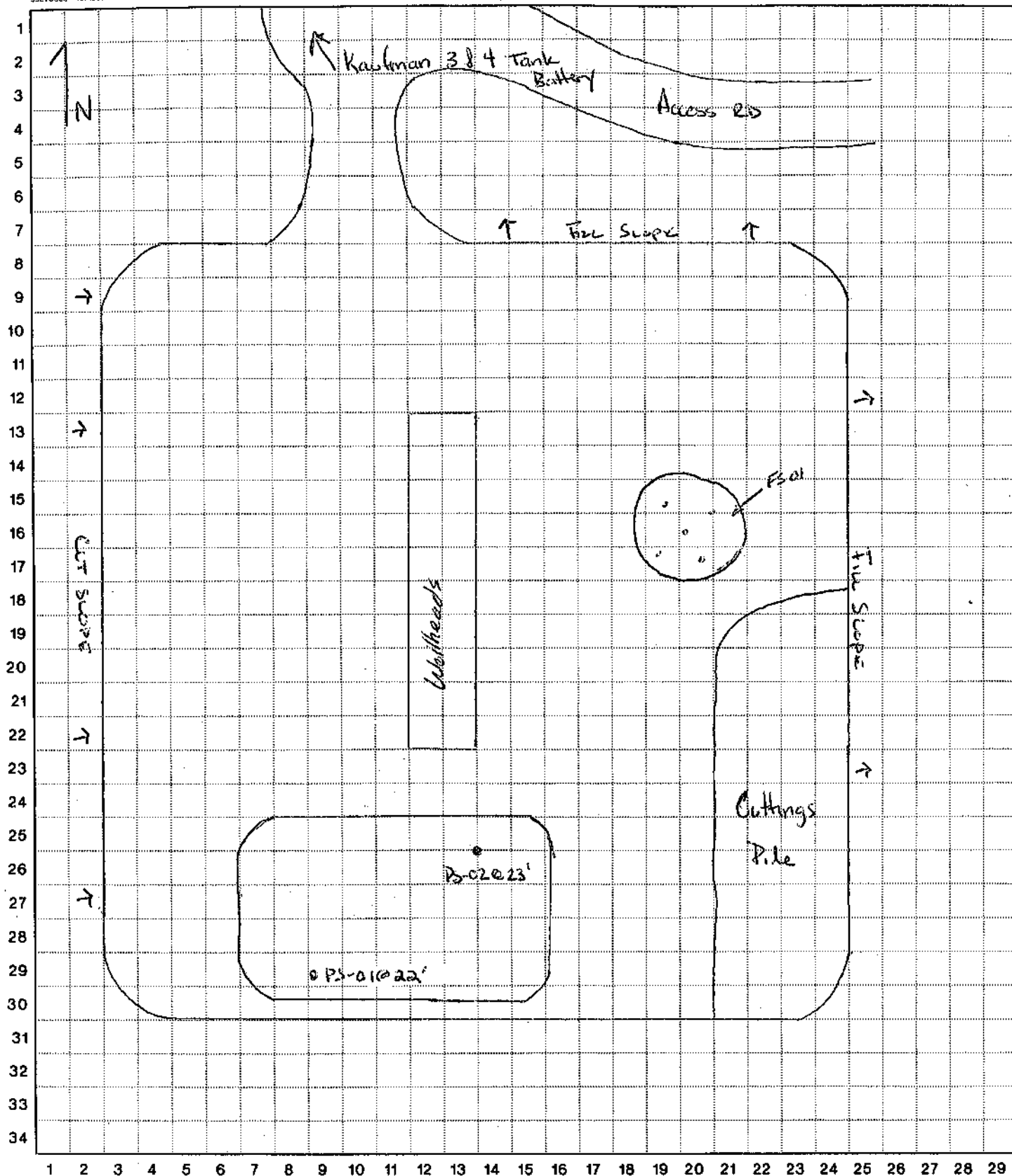




IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- WATER WELL
- PAD

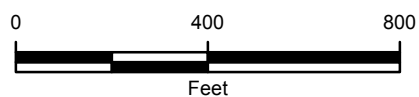


FIGURE 4
SITE MAP
KAUFMAN PAD # 3
GARFIELD COUNTY, COLORADO

BILL BARRETT CORPORATION



TABLE 1
SOIL ANALYTICAL RESULTS
KAUFMAN 3
COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	PS01 BG	PS01	PS02
Depth (feet)		20	22	23
Sample Date		2/10/2012	12/11/2012	12/11/2012

Inorganics

Electrical Conductivity (mmhos/cm)	4	1.27	2.69	3.36
SAR (meq/meq)	12	2.34	7.74	17.4
pH, Lab (pH units)	6 to 9	8.5	9.03	9.45

Metals

Arsenic (mg/kg)	0.39	2.34	2.07	1.39
Barium (mg/Kg)	15000		146	149
Cadmium (mg/Kg)	70		<0.455	<0.481
Chromium+3 Calculated (mg/Kg)	120000		6.01	5.90
Chromium, Hexavalent (mg/Kg)	23		<1.94	<1.94
Copper (mg/Kg)	3100		8.10	7.55
Lead (mg/Kg)	400		8.35	8.90
Mercury (mg/kg)	23		0.0255	0.0359
Nickel (mg/Kg)	1600		8.40	7.86
Selenium (mg/Kg)	390		<0.455	<0.481
Silver (mg/Kg)	390		<0.455	<0.481
Zinc (mg/Kg)	23000		32.8	33.7

Organic Compounds

TPH-DRO (mg/Kg)		11	<1.7
TPH-GRO (mg/Kg)		<0.050	0.068
Benzene (mg/kg)	0.17	<0.005	<0.005
Toluene (mg/kg)	85	<0.005	<0.005
Ethylbenzene (mg/kg)	100	<0.005	<0.005
Xylenes, Total (mg/kg)	175	<0.015	<0.015
Acenaphthene (mg/kg)	1000	<0.0066	<0.0066
Anthracene (mg/kg)	1000	<0.0066	<0.0066
Benzo (a) anthracene (mg/kg)	0.22	<0.0066	<0.0066
Benzo (b) fluoranthene (mg/kg)	0.22	<0.0066	<0.0066
Benzo (k) fluoranthene (mg/kg)	2.2	<0.0066	<0.0066
Benzo (a) pyrene (mg/kg)	0.022	<0.0066	<0.0066
Chrysene (mg/kg)	22	<0.0066	<0.0066
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.0066	<0.0066
Fluoranthene (mg/kg)	1000	<0.0066	<0.0066
Fluorene (mg/kg)	1000	<0.0066	<0.0066
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.0066	<0.0066
Naphthalene (mg/kg)	23	<0.0066	<0.0066
Pyrene (mg/kg)	1000	<0.0066	<0.0066

Notes:

< - less than stated laboratory reporting limit
 Bold indicates result is equal to or exceeds the applicable standard
 Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
 GRO - Gasoline range organics
 TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 2
DEPTH TO GROUNDWATER ANALYSIS
KAUFMAN PAD # 3
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Surrounding Water Well Information								
Receipt #	Permit #	Latitude	Longitude	Distance to Pad (ft)	Total Depth of Well (ft)	Depth to Water (ft)	Ground Surface Elevation at Well (ft)	Groundwater Elevation(ft)
319457	158745- -A	39.503178	-107.601944	771	60	15	5,752	5,737
0038075	38075-MH	39.500236	-107.599122	1,002	123	53	5,796	5,743
9500198	228055	39.504972	-107.603675	1,440	125	39	5,768	5,729
9500199	228056	39.504411	-107.602389	1,203	140	44	5,771	5,727

Kaufman 3 Pad Information				
Latitude	Longitude	Pad Elevation (ft)	Pit Bottom Elevation (ft)	Estimated Depth to Groundwater (ft)
39.501126	-107.602521	5,839	5,819	85

Notes:

ft - feet

Depth to groundwater calculated by averaging the static groundwater level from local water wells. This elevation was then subtracted from the elevation of the pit bottom.

Adjustments were not made for topographic slope as the site is located on an isolated ridge and the surrounding hydraulic gradient within the creek valley is expected to be low.



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 22, 2012

Rob Fishburn
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BBC - Kaufman #3

Enclosed are the results of analyses for samples received by Summit Scientific on 02/14/12 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS01	R202102-01	Soil	02/10/12 14:25	02/14/12 10:00
CS02	R202102-02	Soil	02/10/12 14:50	02/14/12 10:00
CS03	R202102-03	Soil	02/10/12 14:52	02/14/12 10:00
PS01	R202102-04	Soil	02/10/12 15:40	02/14/12 10:00
BG01	R202102-05	Soil	02/10/12 15:20	02/14/12 10:00
BG02	R202102-06	Soil	02/10/12 16:00	02/14/12 10:00
BG03	R202102-07	Soil	02/10/12 16:10	02/14/12 10:00

Summit Scientific

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

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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Client: LTE

Client: 21 - Project Manager: Rob Fishburn
Address: 920 Mexican Unit B E-Mail: fishburn@tntenv.com
City/State/Zip: Esle Colorado 81650 Project Name: Kantman 3
Phone: 970-285-0985 Fax: _____ Project Number: _____
Sampler Name: Rob Fishburn / Dustin Held

Page / of /

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)	P	C	M	S	D	T	B	X		PAHs	As	SAR	EC
CS01	2/10/2002	14:25	3						X															
CS02		14:50	3						X															
CS03		14:52	3						X															
PS01		15:40	2						X															
BG01		15:20	1						X															
BG02		16:00	1						X															
BG03	2/10/2002	16:10	1						X															

Relinquished by: R. B. FISHBURN
Date/Time: 2/13/2002 1430

Relinquished by: [Signature]
Date/Time: 2-14-12 1:55 PM

Relinquished by: [Signature]
Date/Time: 2-14-12 1:55 PM

Received by: [Signature]
Date/Time: 2-14-12 1:55 PM

Received by: [Signature]
Date/Time: 2-14-12 1:55 PM

Received by: [Signature]
Date/Time: 2-14-12 1:55 PM

Turn Around Time (Check): ☒ 72 Hours ☐ Standard

Same Day ☐ **24 Hours** ☐ **48 Hours** ☐

Notes:

Sample Integrity: ☒ Intact ☐ No

Temperature Upon Receipt: 47°

Summit Scientific

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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS01
R202102-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 02/10/12 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	70	50	mg/kg	1	2021411	02/14/12	02/15/12	8015 DRO	

Date Sampled: 02/10/12 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/10/12 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.018	0.0050	mg/kg	1	2021609	02/16/12	02/17/12	EPA 8260B	
Toluene	0.017	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0076	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.013	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.2	0.50	"	"	"	"	"	"	

Date Sampled: 02/10/12 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 02/10/12 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	6.96	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM	
Anthracene	ND	5.00	"	"	"	"	"	"	

Summit Scientific

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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS01
R202102-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Benzo (a) anthracene	22.4	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"
Chrysene	15.2	5.00	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"
Fluoranthene	ND	5.00	"	"	"	"	"	"
Fluorene	27.0	5.00	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"
Naphthalene	51.8	5.00	"	"	"	"	"	"
Pyrene	ND	5.00	"	"	"	"	"	"

Date Sampled: **02/10/12 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: Nitrobenzene-d5		66.4 %		21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.2 %		31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		125 %		44.5-144		"	"	"	"	
Surrogate: Terphenyl-dl4		78.2 %		41.7-139		"	"	"	"	

Summit Scientific

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

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS02
R202102-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	55	50	mg/kg	1	2021411	02/14/12	02/15/12	8015 DRO	

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		102 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2021609	02/16/12	02/17/12	EPA 8260B	
Toluene	0.0059	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0066	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.56	0.50	"	"	"	"	"	"	

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	67.4-143		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %	77.3-114		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.4 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM	
Anthracene	ND	5.00	"	"	"	"	"	"	

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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS02
R202102-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Benzo (a) anthracene	14.2	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (a) pyrene	5.82	5.00	"	"	"	"	"	"
Chrysene	8.65	5.00	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"
Fluoranthene	ND	5.00	"	"	"	"	"	"
Fluorene	16.1	5.00	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"
Naphthalene	33.1	5.00	"	"	"	"	"	"
Pyrene	ND	5.00	"	"	"	"	"	"

Date Sampled: **02/10/12 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: Nitrobenzene-d5		53.0 %		21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		79.6 %		31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		142 %		44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		64.5 %		41.7-139		"	"	"	"	

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

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS03
R202102-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/10/12 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	54	50	mg/kg	1	2021411	02/14/12	02/15/12	8015 DRO	

Date Sampled: **02/10/12 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/10/12 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0052	0.0050	mg/kg	1	2021609	02/16/12	02/17/12	EPA 8260B	
Toluene	0.0082	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.64	0.50	"	"	"	"	"	"	

Date Sampled: **02/10/12 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.9 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		102 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **02/10/12 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	5.21	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM	
Anthracene	ND	5.00	"	"	"	"	"	"	

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

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

CS03
R202102-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Benzo (a) anthracene	15.2	5.00	ug/kg	1	2021801	02/18/12	02/21/12	EPA 8270D SIM
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"
Chrysene	9.61	5.00	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"
Fluoranthene	ND	5.00	"	"	"	"	"	"
Fluorene	16.3	5.00	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"
Naphthalene	29.3	5.00	"	"	"	"	"	"
Pyrene	ND	5.00	"	"	"	"	"	"

Date Sampled: 02/10/12 14:52

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5		51.7 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		97.3 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		125 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-dl4		64.3 %	41.7-139		"	"	"	"	

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

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

PS01
R202102-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **02/10/12 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.34	0.0803	mg/kg	1	2021407	02/14/12	02/17/12	EPA 6020	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/10/12 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.27	0.00100	mmhos/cm	1	2021603	02/16/12	02/20/12	SM 2510B	

Date Sampled: **02/10/12 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	"	2021602	02/16/12	02/20/12	EPA 9045B	

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

Date Sampled: **02/10/12 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	392	2.50	mg/kg	1	2021408	02/14/12	02/15/12	EPA 6020/USDA60 6(2, 3A)	
Magnesium	113	1.00	"	"	"	"	"	"	
Sodium	204	10.0	"	"	"	"	"	"	

Date Sampled: **02/10/12 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.34		units	"	2022008	02/20/12	02/20/12	"	

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Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

BG01
R202102-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **02/10/12 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.58	0.0714	mg/kg	1	2021407	02/14/12	02/17/12	EPA 6020	

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Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

BG02
R202102-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **02/10/12 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.72	0.0746	mg/kg	1	2021407	02/14/12	02/17/12	EPA 6020	

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Arvada CO, 80003

Project: BBC - Kaufman #3

Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

BG03
R202102-07 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **02/10/12 16:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.67	0.0695	mg/kg	1	2021407	02/14/12	02/17/12	EPA 6020	

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2021411 - EPA 3550A

Blank (2021411-BLK1)

Prepared & Analyzed: 02/14/12

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 102 88.8-124

LCS (2021411-BS1)

Prepared & Analyzed: 02/14/12

C10-C28 (DRO) 543 50 mg/kg 501 108 81.4-129 9.26

LCS Dup (2021411-BSD1)

Prepared & Analyzed: 02/14/12

C10-C28 (DRO) 506 50 mg/kg 501 101 81.4-129 6.97 9.26

Matrix Spike (2021411-MS1)

Source: R202089-01

Prepared & Analyzed: 02/14/12

C10-C28 (DRO) 537 50 mg/kg 501 52.6 96.6 77.8-133 8.48

Matrix Spike Dup (2021411-MSD1)

Source: R202089-01

Prepared & Analyzed: 02/14/12

C10-C28 (DRO) 481 50 mg/kg 501 52.6 85.4 77.8-133 11.0 8.48 QM-07

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

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021609 - EPA 5030 Soil MS

Blank (2021609-BLK1)

Prepared & Analyzed: 02/16/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0397	88.2	67.4-143				
Surrogate: Toluene-d8	0.0404		"	0.0400	101	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400	93.8	78.4-125				

LCS (2021609-BS1)

Prepared & Analyzed: 02/16/12

Benzene	0.0725	0.0050	mg/kg	0.100	72.5	61-139		11.1		
Toluene	0.0767	0.0050	"	0.100	76.7	64-132		10.9		
Ethylbenzene	0.0861	0.0050	"	0.100	86.1	68.7-135		20		
m,p-Xylene	0.162	0.010	"	0.200	80.8	70.4-129		20		
o-Xylene	0.0761	0.0050	"	0.100	76.1	66.9-126		20		
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0397	90.3	67.4-143				
Surrogate: Toluene-d8	0.0408		"	0.0400	102	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400	94.9	78.4-125				

LCS Dup (2021609-BSD1)

Prepared & Analyzed: 02/16/12

Benzene	0.0730	0.0050	mg/kg	0.100	73.0	61-139	0.701	11.1		
Toluene	0.0780	0.0050	"	0.100	78.0	64-132	1.63	10.9		
Ethylbenzene	0.0880	0.0050	"	0.100	88.0	68.7-135	2.14	20		
m,p-Xylene	0.166	0.010	"	0.200	82.8	70.4-129	2.33	20		
o-Xylene	0.0775	0.0050	"	0.100	77.5	66.9-126	1.84	20		
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0397	90.7	67.4-143				
Surrogate: Toluene-d8	0.0398		"	0.0400	99.6	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400	94.0	78.4-125				

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

Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021609 - EPA 5030 Soil MS

Matrix Spike (2021609-MS1)		Source: R202120-01			Prepared & Analyzed: 02/16/12					
Benzene	0.0754	0.0050	mg/kg	0.100	ND	75.4	42.9-137		17.9	
Toluene	0.0789	0.0050	"	0.100	ND	78.9	42.6-130		11.9	
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	39-133		20	
m,p-Xylene	0.164	0.010	"	0.200	ND	81.9	34.7-134		20	
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0397		100	67.4-143			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	78.4-125			

Matrix Spike Dup (2021609-MSD1)		Source: R202120-01			Prepared & Analyzed: 02/16/12					
Benzene	0.0746	0.0050	mg/kg	0.100	ND	74.6	42.9-137	1.04	17.9	
Toluene	0.0782	0.0050	"	0.100	ND	78.2	42.6-130	0.879	11.9	
Ethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	39-133	0.965	20	
m,p-Xylene	0.164	0.010	"	0.200	ND	82.0	34.7-134	0.0549	20	
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	41.3-126	0.696	20	
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0397		99.1	67.4-143			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	78.4-125			

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Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021801 - EPA 3550A

Blank (2021801-BLK1)

Prepared: 02/18/12 Analyzed: 02/21/12

Acenaphthene	ND	5.00	ug/kg							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	5.00	"							
Pyrene	ND	5.00	"							
Surrogate: Nitrobenzene-d5	30.3		"	33.3		90.9	21.8-138			
Surrogate: 2-Fluorobiphenyl	38.0		"	33.1		115	31.2-131			
Surrogate: 2,4,6-Tribromophenol	35.3		"	33.3		106	44.5-144			
Surrogate: Terphenyl-d14	31.3		"	32.7		96.0	41.7-139			

LCS (2021801-BS1)

Prepared: 02/18/12 Analyzed: 02/21/12

Acenaphthene	29.6	5.00	ug/kg	33.3		88.9	30-120		30	
Anthracene	27.6	5.00	"	33.3		82.9	30-120		30	
Benzo (a) anthracene	28.6	5.00	"	33.3		85.8	30-120		30	
Benzo (b) fluoranthene	28.7	5.00	"	33.3		86.1	30-120		30	
Benzo (k) fluoranthene	26.1	5.00	"	33.3		78.2	30-120		30	
Benzo (a) pyrene	26.7	5.00	"	33.3		80.0	30-120		30	
Chrysene	30.2	5.00	"	33.3		90.6	30-120		30	
Dibenz (a,h) anthracene	28.6	10.0	"	33.3		85.8	30-120		30	
Fluoranthene	28.6	5.00	"	33.3		85.8	30-120		30	
Fluorene	29.5	5.00	"	33.3		88.5	30-120		30	
Indeno (1,2,3-cd) pyrene	30.1	10.0	"	33.3		90.4	30-120		30	
Naphthalene	28.6	5.00	"	33.3		85.7	30-120		30	
Pyrene	30.8	5.00	"	33.3		92.5	30-120		30	
Surrogate: Nitrobenzene-d5	27.7		"	33.3		83.1	21.8-138			
Surrogate: 2-Fluorobiphenyl	34.0		"	33.1		103	31.2-131			
Surrogate: 2,4,6-Tribromophenol	30.7		"	33.3		92.1	44.5-144			
Surrogate: Terphenyl-d14	30.7		"	32.7		93.9	41.7-139			

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Project: BBC - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021801 - EPA 3550A

LCS Dup (2021801-BSD1)

Prepared: 02/18/12 Analyzed: 02/21/12

Acenaphthene	30.1	5.00	ug/kg	33.3	90.4	30-120	1.71	30	
Anthracene	30.4	5.00	"	33.3	91.3	30-120	9.71	30	
Benzo (a) anthracene	32.9	5.00	"	33.3	98.7	30-120	13.9	30	
Benzo (b) fluoranthene	32.6	5.00	"	33.3	97.7	30-120	12.6	30	
Benzo (k) fluoranthene	25.8	5.00	"	33.3	77.5	30-120	0.886	30	
Benzo (a) pyrene	27.7	5.00	"	33.3	83.2	30-120	3.94	30	
Chrysene	32.0	5.00	"	33.3	96.0	30-120	5.74	30	
Dibenz (a,h) anthracene	23.7	10.0	"	33.3	71.2	30-120	18.5	30	
Fluoranthene	29.0	5.00	"	33.3	87.0	30-120	1.37	30	
Fluorene	30.1	5.00	"	33.3	90.4	30-120	2.14	30	
Indeno (1,2,3-cd) pyrene	32.1	10.0	"	33.3	96.3	30-120	6.33	30	
Naphthalene	29.3	5.00	"	33.3	87.8	30-120	2.39	30	
Pyrene	33.2	5.00	"	33.3	99.5	30-120	7.28	30	
Surrogate: Nitrobenzene-d5	28.6		"	33.3	85.9	21.8-138			
Surrogate: 2-Fluorobiphenyl	33.5		"	33.1	101	31.2-131			
Surrogate: 2,4,6-Tribromophenol	26.6		"	33.3	79.8	44.5-144			
Surrogate: Terphenyl-d14	32.0		"	32.7	98.1	41.7-139			

Matrix Spike (2021801-MS1)

Source: R202100-01

Prepared: 02/18/12 Analyzed: 02/21/12

Acenaphthene	28.5	5.00	ug/kg	33.3	3.39	75.3	30-120	30	
Anthracene	27.4	5.00	"	33.3	2.81	73.9	30-120	30	
Benzo (a) anthracene	37.1	5.00	"	33.3	7.74	88.2	30-120	30	
Benzo (b) fluoranthene	37.8	5.00	"	33.3	6.85	92.8	30-120	30	
Benzo (k) fluoranthene	24.7	5.00	"	33.3	5.06	58.9	30-120	30	
Benzo (a) pyrene	33.7	5.00	"	33.3	9.29	73.3	30-120	30	
Chrysene	30.1	5.00	"	33.3	8.04	66.2	30-120	30	
Dibenz (a,h) anthracene	32.5	10.0	"	33.3	6.78	77.2	30-120	30	
Fluoranthene	27.3	5.00	"	33.3	2.89	73.3	30-120	30	
Fluorene	33.2	5.00	"	33.3	8.11	75.2	30-120	30	
Indeno (1,2,3-cd) pyrene	29.5	10.0	"	33.3	6.27	69.8	30-120	30	
Naphthalene	49.7	5.00	"	33.3	33.4	48.8	30-120	30	
Pyrene	24.2	5.00	"	33.3	3.55	62.1	30-120	30	
Surrogate: Nitrobenzene-d5	25.1		"	33.3	75.2	21.8-138			
Surrogate: 2-Fluorobiphenyl	26.1		"	33.1	78.8	31.2-131			
Surrogate: 2,4,6-Tribromophenol	29.0		"	33.3	87.0	44.5-144			
Surrogate: Terphenyl-d14	21.0		"	32.7	64.2	41.7-139			

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 - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021801 - EPA 3550A

Matrix Spike Dup (2021801-MSD1)		Source: R202100-01			Prepared: 02/18/12		Analyzed: 02/21/12			
Acenaphthene	30.4	5.00	ug/kg	33.3	3.39	81.0	30-120	6.53	30	
Anthracene	31.6	5.00	"	33.3	2.81	86.5	30-120	14.2	30	
Benzo (a) anthracene	41.3	5.00	"	33.3	7.74	101	30-120	10.7	30	
Benzo (b) fluoranthene	37.3	5.00	"	33.3	6.85	91.3	30-120	1.33	30	
Benzo (k) fluoranthene	26.7	5.00	"	33.3	5.06	64.9	30-120	7.75	30	
Benzo (a) pyrene	35.2	5.00	"	33.3	9.29	77.7	30-120	4.33	30	
Chrysene	30.9	5.00	"	33.3	8.04	68.6	30-120	2.71	30	
Dibenz (a,h) anthracene	27.4	10.0	"	33.3	6.78	61.9	30-120	17.0	30	
Fluoranthene	29.8	5.00	"	33.3	2.89	80.6	30-120	8.51	30	
Fluorene	34.3	5.00	"	33.3	8.11	78.5	30-120	3.24	30	
Indeno (1,2,3-cd) pyrene	33.8	10.0	"	33.3	6.27	82.6	30-120	13.5	30	
Naphthalene	50.5	5.00	"	33.3	33.4	51.2	30-120	1.58	30	
Pyrene	27.0	5.00	"	33.3	3.55	70.3	30-120	10.7	30	
Surrogate: Nitrobenzene-d5	29.4		"	33.3		88.3	21.8-138			
Surrogate: 2-Fluorobiphenyl	28.6		"	33.1		86.5	31.2-131			
Surrogate: 2,4,6-Tribromophenol	33.8		"	33.3		101	44.5-144			
Surrogate: Terphenyl-d14	25.1		"	32.7		76.8	41.7-139			

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 - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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 2021407 - EPA 3050B

Blank (2021407-BLK1)

Prepared: 02/14/12 Analyzed: 02/17/12

Arsenic ND 0.100 mg/kg

LCS (2021407-BS1)

Prepared: 02/14/12 Analyzed: 02/17/12

Arsenic 2.39 0.100 mg/kg 2.54 94.2 80-120 20

LCS Dup (2021407-BSD1)

Prepared: 02/14/12 Analyzed: 02/17/12

Arsenic 2.53 0.100 mg/kg 2.54 99.6 80-120 5.61 20

Matrix Spike (2021407-MS1)

Source: R202061-01

Prepared: 02/14/12 Analyzed: 02/16/12

Arsenic 4.73 0.0880 mg/kg 2.23 3.05 75.5 75-125 20

Matrix Spike (2021407-MS2)

Source: R202100-01

Prepared: 02/14/12 Analyzed: 02/16/12

Arsenic 5.45 0.0831 mg/kg 2.11 5.33 5.79 75-125 20 QM-07

Matrix Spike Dup (2021407-MSD1)

Source: R202061-01

Prepared: 02/14/12 Analyzed: 02/16/12

Arsenic 4.36 0.0709 mg/kg 1.80 3.05 72.9 75-125 8.25 20 QM-07

Matrix Spike Dup (2021407-MSD2)

Source: R202100-01

Prepared: 02/14/12 Analyzed: 02/16/12

Arsenic 13.8 0.0823 mg/kg 2.09 5.33 404 75-125 86.6 20 QM-07

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 - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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

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

Batch 2021602 - General Preparation

Duplicate (2021602-DUP1)		Source: R202100-01		Prepared & Analyzed: 02/16/12						
pH	7.1		pH Units		7.2			1.67	20	

Batch 2021603 - General Preparation

Duplicate (2021603-DUP1)		Source: R202100-01		Prepared: 02/16/12 Analyzed: 02/20/12						
Specific Conductance (EC)	2.25	0.00100	mmhos/cm		2.20			2.11	20	

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 - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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 2021408 - General Preparation

Blank (2021408-BLK1)

Prepared: 02/14/12 Analyzed: 02/15/12

Calcium	ND	2.50	mg/kg							
Magnesium	ND	1.00	"							
Sodium	5.04	5.00	"							

LCS (2021408-BS1)

Prepared: 02/14/12 Analyzed: 02/15/12

Calcium	386	2.50	mg/kg	400		96.6	70-130		25	
Magnesium	193	1.00	"	200		96.5	70-130		25	
Sodium	792	5.00	"	800		99.0	70-130		25	

LCS Dup (2021408-BSD1)

Prepared: 02/14/12 Analyzed: 02/15/12

Calcium	383	2.50	mg/kg	400		95.7	70-130	0.912	25	
Magnesium	194	1.00	"	200		97.1	70-130	0.656	25	
Sodium	795	5.00	"	800		99.4	70-130	0.436	25	

Matrix Spike (2021408-MS1)

Source: R202100-01

Prepared: 02/14/12 Analyzed: 02/15/12

Calcium	841	2.50	mg/kg	369	490	95.1	70-130		25	
Magnesium	306	1.00	"	184	110	107	70-130		25	
Sodium	1170	5.00	"	737	430	100	70-130		25	

Matrix Spike Dup (2021408-MSD1)

Source: R202100-01

Prepared: 02/14/12 Analyzed: 02/15/12

Calcium	883	2.50	mg/kg	366	490	107	70-130	4.88	25	
Magnesium	321	1.00	"	183	110	115	70-130	4.59	25	
Sodium	1190	5.00	"	733	430	104	70-130	2.17	25	

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 - Kaufman #3
Project Number: 0273
Project Manager: Rob Fishburn

Reported:
02/22/12 17:56

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/LCSD recovery.

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

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.



20-Dec-2012

Brian Dodek
LT Environmental
4600 West 60th Avenue
Arvada, CO 80003

Tel: (303) 962-5535
Fax: (303) 433-1432

Re: 027312008 Kaufman 3

Work Order: **1212393**

Dear Brian,

ALS Environmental received 3 samples on 12-Dec-2012 09:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Patricia L. Lynch".

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#J UR X S#K VD /#R U S#Sdu#h: i#hch#DOV#J ur xs##D q#DOV#Dp l#hg#F rp s dq |

Environmental The ALS logo, a stylized blue triangle with a yellow flame.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental
Project: 027312008 Kaufman 3
Work Order: 1212393

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1212393-01	PS -01 @ 22'	Soil		12/11/2012 12:50	12/12/2012 09:20	<input type="checkbox"/>
1212393-02	PS - 02 @ 23'	Soil		12/11/2012 12:55	12/12/2012 09:20	<input type="checkbox"/>
1212393-03	FS - 01	Soil		12/11/2012 12:40	12/12/2012 09:20	<input type="checkbox"/>

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Work Order: 1212393

Case Narrative

Batch 66489, PAHs, Sample 1212390-07: MS/MSD RPD is for an unrelated sample.

Batch 66499, Metals, Sample 1212390-07: MS/MSD RPD is for an unrelated sample.

Batch R139878, BTEX, Sample 1212210-07: MS/MSD RPD is for an unrelated sample.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: PS -01 @ 22'
Collection Date: 12/11/2012 12:50 PM

Work Order: 1212393
Lab ID: 1212393-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C						
TPH (Diesel Range)	11		SW8015M		Prep Date: 12/14/2012	Analyst: KMB
<i>Surr: 2-Fluorobiphenyl</i>	79.5		1.7 mg/Kg		1	12/14/2012 11:13 PM
			60-135 %REC		1	12/14/2012 11:13 PM
GASOLINE RANGE ORGANICS - SW8015C						
GASOLINE RANGE ORGANICS	ND		SW8015			Analyst: SMA
<i>Surr: 4-Bromofluorobenzene</i>	91.5		0.050 mg/Kg		1	12/13/2012 11:25 PM
			70-130 %REC		1	12/13/2012 11:25 PM
TRIVALENT CHROMIUM						
Chromium, Trivalent	6.01		CALCULATION			Analyst: SKS
			5.00 mg/Kg		1	12/19/2012
MERCURY - SW7471B						
Mercury	25.5		SW7471A		Prep Date: 12/18/2012	Analyst: OFO
			3.45 µg/Kg		1	12/18/2012 03:05 PM
METALS						
Arsenic	2.07		SW6020		Prep Date: 12/13/2012	Analyst: SKS
Barium	146		0.455 mg/Kg		1	12/13/2012 02:52 PM
Cadmium	ND		0.455 mg/Kg		1	12/13/2012 02:52 PM
Chromium	6.01		0.455 mg/Kg		1	12/13/2012 02:52 PM
Copper	8.10		0.455 mg/Kg		1	12/13/2012 02:52 PM
Lead	8.35		0.455 mg/Kg		1	12/13/2012 02:52 PM
Nickel	8.40		0.455 mg/Kg		1	12/13/2012 02:52 PM
Selenium	ND		0.455 mg/Kg		1	12/13/2012 02:52 PM
Silver	ND		0.455 mg/Kg		1	12/13/2012 02:52 PM
Vanadium	11.0		0.455 mg/Kg		1	12/13/2012 02:52 PM
Zinc	32.8		0.910 mg/Kg		1	12/13/2012 02:52 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	7.74		LA29B SAR		Prep Date: 12/13/2012	Analyst: ALR
			0.0100 meq/meq		1	12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	12.1		LA29B-6020		Prep Date: 12/13/2012	Analyst: ALR
Magnesium	12.8		5.00 mg/L		10	12/17/2012 07:30 PM
Sodium	162		5.00 mg/L		10	12/17/2012 07:30 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270		Prep Date: 12/13/2012	Analyst: LG
Anthracene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM
Benz(a)anthracene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM
Benzo(a)pyrene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM
Benzo(b)fluoranthene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM
Benzo(k)fluoranthene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM
Chrysene	ND		6.6 µg/Kg		1	12/14/2012 03:30 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: PS -01 @ 22'
Collection Date: 12/11/2012 12:50 PM

Work Order: 1212393
Lab ID: 1212393-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenz(a,h)anthracene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Fluoranthene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Fluorene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Indeno(1,2,3-cd)pyrene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Naphthalene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Pyrene	ND		6.6	µg/Kg	1	12/14/2012 03:30 AM
Surr: 2-Fluorobiphenyl	66.8		43-125	%REC	1	12/14/2012 03:30 AM
Surr: 4-Terphenyl-d14	79.5		32-125	%REC	1	12/14/2012 03:30 AM
Surr: Nitrobenzene-d5	66.9		37-125	%REC	1	12/14/2012 03:30 AM
VOLATILES - SW8260C			SW8260		Analyst: KKP	
Benzene	ND		5.0	µg/Kg	1	12/14/2012 06:48 PM
Ethylbenzene	ND		5.0	µg/Kg	1	12/14/2012 06:48 PM
Toluene	ND		5.0	µg/Kg	1	12/14/2012 06:48 PM
Xylenes, Total	ND		15	µg/Kg	1	12/14/2012 06:48 PM
Surr: 1,2-Dichloroethane-d4	112		70-128	%REC	1	12/14/2012 06:48 PM
Surr: 4-Bromofluorobenzene	98.8		73-126	%REC	1	12/14/2012 06:48 PM
Surr: Dibromofluoromethane	107		71-128	%REC	1	12/14/2012 06:48 PM
Surr: Toluene-d8	94.4		73-127	%REC	1	12/14/2012 06:48 PM
HEXAVALENT CHROMIUM - SW7196A			SW7196		Prep Date: 12/19/2012	Analyst: EDG
Chromium, Hexavalent	ND		1.94	mg/Kg	1	12/19/2012 09:05 AM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC		Analyst: VAN	
Electrical Conductivity @ saturation	2.69		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Electrical Conductivity, 1:1 aqueous	0.887		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Saturation % as decimal	0.330			mmhos/cm @25°C	1	12/18/2012 01:00 PM
LA29B SATURATION POINT			LADNR-29B SP		Analyst: KAH	
Saturation Point	0.330		0.100	% Saturation as Decimal	1	12/18/2012 12:50 PM
PH - SOIL - SW9045D			SW9045B		Analyst: KL	
pH	9.03		0.100	pH Units	1	12/15/2012 12:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: PS - 02 @ 23'
Collection Date: 12/11/2012 12:55 PM

Work Order: 1212393
Lab ID: 1212393-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C						
TPH (Diesel Range)	ND		SW8015M	1.7 mg/Kg	1	Prep Date: 12/14/2012 Analyst: KMB 12/14/2012 11:35 PM
Surr: 2-Fluorobiphenyl	63.8		60-135	%REC	1	12/14/2012 11:35 PM
GASOLINE RANGE ORGANICS - SW8015C						
Gasoline Range Organics	0.068		SW8015	0.050 mg/Kg	1	Analyst: SMA 12/14/2012 12:21 AM
Surr: 4-Bromofluorobenzene	84.3		70-130	%REC	1	12/14/2012 12:21 AM
TRIVALENT CHROMIUM						
Chromium, Trivalent	5.90		CALCULATION	5.00 mg/Kg	1	Analyst: SKS 12/19/2012
MERCURY - SW7471B						
Mercury	35.9		SW7471A	3.41 µg/Kg	1	Prep Date: 12/18/2012 Analyst: OFO 12/18/2012 03:07 PM
METALS						
Arsenic	1.39		SW6020	0.481 mg/Kg	1	Prep Date: 12/13/2012 Analyst: SKS 12/13/2012 02:54 PM
Barium	149		0.481	mg/Kg	1	12/13/2012 02:54 PM
Cadmium	ND		0.481	mg/Kg	1	12/13/2012 02:54 PM
Chromium	5.90		0.481	mg/Kg	1	12/13/2012 02:54 PM
Copper	7.55		0.481	mg/Kg	1	12/13/2012 02:54 PM
Lead	8.90		0.481	mg/Kg	1	12/13/2012 02:54 PM
Nickel	7.86		0.481	mg/Kg	1	12/13/2012 02:54 PM
Selenium	ND		0.481	mg/Kg	1	12/13/2012 02:54 PM
Silver	ND		0.481	mg/Kg	1	12/13/2012 02:54 PM
Vanadium	12.3		0.481	mg/Kg	1	12/13/2012 02:54 PM
Zinc	33.7		0.961	mg/Kg	1	12/13/2012 02:54 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	17.4		LA29B SAR	0.0100 meq/meq	1	Prep Date: 12/13/2012 Analyst: ALR 12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	6.69		LA29B-6020	5.00 mg/L	10	Prep Date: 12/13/2012 Analyst: ALR 12/17/2012 07:35 PM
Magnesium	4.36		2.00	mg/L	10	12/17/2012 07:35 PM
Sodium	236		5.00	mg/L	10	12/17/2012 07:35 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270	6.6 µg/Kg	1	Prep Date: 12/13/2012 Analyst: LG 12/14/2012 03:50 AM
Anthracene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Benz(a)anthracene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Benzo(a)pyrene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Benzo(b)fluoranthene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Benzo(k)fluoranthene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Chrysene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: PS - 02 @ 23'
Collection Date: 12/11/2012 12:55 PM

Work Order: 1212393
Lab ID: 1212393-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenz(a,h)anthracene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Fluoranthene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Fluorene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Indeno(1,2,3-cd)pyrene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Naphthalene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Pyrene	ND		6.6	µg/Kg	1	12/14/2012 03:50 AM
Surr: 2-Fluorobiphenyl	55.7		43-125	%REC	1	12/14/2012 03:50 AM
Surr: 4-Terphenyl-d14	72.4		32-125	%REC	1	12/14/2012 03:50 AM
Surr: Nitrobenzene-d5	58.5		37-125	%REC	1	12/14/2012 03:50 AM
VOLATILES - SW8260C			SW8260			Analyst: KKP
Benzene	ND		5.0	µg/Kg	1	12/14/2012 07:13 PM
Ethylbenzene	ND		5.0	µg/Kg	1	12/14/2012 07:13 PM
Toluene	ND		5.0	µg/Kg	1	12/14/2012 07:13 PM
Xylenes, Total	ND		15	µg/Kg	1	12/14/2012 07:13 PM
Surr: 1,2-Dichloroethane-d4	114		70-128	%REC	1	12/14/2012 07:13 PM
Surr: 4-Bromofluorobenzene	98.5		73-126	%REC	1	12/14/2012 07:13 PM
Surr: Dibromofluoromethane	104		71-128	%REC	1	12/14/2012 07:13 PM
Surr: Toluene-d8	94.1		73-127	%REC	1	12/14/2012 07:13 PM
HEXAVALENT CHROMIUM - SW7196A			SW7196		Prep Date: 12/19/2012	Analyst: EDG
Chromium, Hexavalent	ND		1.94	mg/Kg	1	12/19/2012 09:05 AM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: VAN
Electrical Conductivity @ saturation	3.36		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Electrical Conductivity, 1:1 aqueous	1.15		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Saturation % as decimal	0.342			mmhos/cm @25°C	1	12/18/2012 01:00 PM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.342		0.100	% Saturation as Decimal	1	12/18/2012 12:50 PM
PH - SOIL - SW9045D			SW9045B			Analyst: KL
pH	9.45		0.100	pH Units	1	12/15/2012 12:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: FS - 01
Collection Date: 12/11/2012 12:40 PM

Work Order: 1212393
Lab ID: 1212393-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C						
TPH (Diesel Range)	66		SW8015M	8.5 mg/Kg	5	Prep Date: 12/14/2012 Analyst: KMB
Surr: 2-Fluorobiphenyl	61.9		60-135	%REC	5	12/17/2012 03:21 PM
GASOLINE RANGE ORGANICS - SW8015C						
Gasoline Range Organics	0.056		SW8015	0.050 mg/Kg	1	Analyst: SMA
Surr: 4-Bromofluorobenzene	78.4		70-130	%REC	1	12/14/2012 12:40 AM
TRIVALENT CHROMIUM						
Chromium, Trivalent	6.60		CALCULATION	5.00 mg/Kg	1	Analyst: SKS
MERCURY - SW7471B						
Mercury	12.3		SW7471A	3.45 µg/Kg	1	Prep Date: 12/18/2012 Analyst: OFO
METALS						
Arsenic	1.94		SW6020	0.476 mg/Kg	1	Prep Date: 12/13/2012 Analyst: SKS
Barium	1,630			47.6 mg/Kg	100	12/13/2012 03:01 PM
Cadmium	ND			0.476 mg/Kg	1	12/14/2012 03:23 PM
Chromium	6.60			0.476 mg/Kg	1	12/13/2012 03:01 PM
Copper	11.3			0.476 mg/Kg	1	12/13/2012 03:01 PM
Lead	7.19			0.476 mg/Kg	1	12/13/2012 03:01 PM
Nickel	8.35			0.476 mg/Kg	1	12/13/2012 03:01 PM
Selenium	0.518			0.476 mg/Kg	1	12/13/2012 03:01 PM
Silver	ND			0.476 mg/Kg	1	12/13/2012 03:01 PM
Vanadium	9.90			0.476 mg/Kg	1	12/13/2012 03:01 PM
Zinc	34.1			0.953 mg/Kg	1	12/13/2012 03:01 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	7.63		LA29B SAR	0.0100 meq/meq	1	Prep Date: 12/13/2012 Analyst: ALR
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	39.3		LA29B-6020	5.00 mg/L	10	Prep Date: 12/13/2012 Analyst: ALR
Magnesium	13.7			5.00 mg/L	10	12/17/2012 07:56 PM
Sodium	218			5.00 mg/L	10	12/17/2012 07:56 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270	6.6 µg/Kg	1	Prep Date: 12/13/2012 Analyst: LG
Anthracene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM
Benz(a)anthracene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM
Benzo(a)pyrene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM
Benzo(b)fluoranthene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM
Benzo(k)fluoranthene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM
Chrysene	ND			6.6 µg/Kg	1	12/14/2012 01:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
Sample ID: FS - 01
Collection Date: 12/11/2012 12:40 PM

Work Order: 1212393
Lab ID: 1212393-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenz(a,h)anthracene	ND		6.6	µg/Kg	1	12/14/2012 01:28 PM
Fluoranthene	ND		6.6	µg/Kg	1	12/14/2012 01:28 PM
Fluorene	16		6.6	µg/Kg	1	12/14/2012 01:28 PM
Indeno(1,2,3-cd)pyrene	ND		6.6	µg/Kg	1	12/14/2012 01:28 PM
Naphthalene	69		6.6	µg/Kg	1	12/14/2012 01:28 PM
Pyrene	ND		6.6	µg/Kg	1	12/14/2012 01:28 PM
Surr: 2-Fluorobiphenyl	67.4		43-125	%REC	1	12/14/2012 01:28 PM
Surr: 4-Terphenyl-d14	57.4		32-125	%REC	1	12/14/2012 01:28 PM
Surr: Nitrobenzene-d5	61.9		37-125	%REC	1	12/14/2012 01:28 PM
VOLATILES - SW8260C			SW8260			Analyst: KKP
Benzene	ND		5.0	µg/Kg	1	12/14/2012 07:38 PM
Ethylbenzene	ND		5.0	µg/Kg	1	12/14/2012 07:38 PM
Toluene	ND		5.0	µg/Kg	1	12/14/2012 07:38 PM
Xylenes, Total	ND		15	µg/Kg	1	12/14/2012 07:38 PM
Surr: 1,2-Dichloroethane-d4	113		70-128	%REC	1	12/14/2012 07:38 PM
Surr: 4-Bromofluorobenzene	98.2		73-126	%REC	1	12/14/2012 07:38 PM
Surr: Dibromofluoromethane	107		71-128	%REC	1	12/14/2012 07:38 PM
Surr: Toluene-d8	96.3		73-127	%REC	1	12/14/2012 07:38 PM
HEXAVALENT CHROMIUM - SW7196A			SW7196		Prep Date: 12/19/2012	Analyst: EDG
Chromium, Hexavalent	ND		1.94	mg/Kg	1	12/19/2012 09:05 AM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: VAN
Electrical Conductivity @ saturation	3.39		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Electrical Conductivity, 1:1 aqueous	1.14		0.0100	mmhos/cm @25°C	1	12/18/2012 01:00 PM
Saturation % as decimal	0.337			mmhos/cm @25°C	1	12/18/2012 01:00 PM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.337		0.100	% Saturation as Decimal	1	12/18/2012 12:50 PM
PH - SOIL - SW9045D			SW9045B			Analyst: KL
pH	8.88		0.100	pH Units	1	12/15/2012 12:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
 Work Order: 1212393
 Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66509a** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-121412-66509a** Units: **mg/Kg** Analysis Date: **12/14/2012 02:57 PM**

Client ID: Run ID: **FID-7_121214B** SeqNo: **3055320** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	ND	1.7								
<i>Surr: 2-Fluorobiphenyl</i>	3.491	0.10	3.33	0	105	60-135	0			

LCS Sample ID: **FLCSS1-121412-66509a** Units: **mg/Kg** Analysis Date: **12/14/2012 03:20 PM**

Client ID: Run ID: **FID-7_121214B** SeqNo: **3055321** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.83	1.7	33.33	0	116	70-130	0			
<i>Surr: 2-Fluorobiphenyl</i>	3.187	0.10	3.33	0	95.7	60-135	0			

MS Sample ID: **1212295-08AMS** Units: **mg/Kg** Analysis Date: **12/14/2012 04:04 PM**

Client ID: Run ID: **FID-7_121214B** SeqNo: **3055323** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.93	1.7	33.21	1.131	95.8	70-130	0			
<i>Surr: 2-Fluorobiphenyl</i>	2.041	0.10	3.318	0	61.5	60-135	0			

MSD Sample ID: **1212295-08AMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 04:27 PM**

Client ID: Run ID: **FID-7_121214B** SeqNo: **3055324** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	40.11	1.7	33.23	1.131	117	70-130	32.93	19.6	30	
<i>Surr: 2-Fluorobiphenyl</i>	2.778	0.10	3.32	0	83.7	60-135	2.041	30.6	30	R

The following samples were analyzed in this batch:

1212393-01C	1212393-02C	1212393-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 16

Client: LT Environmental
 Work Order: 1212393
 Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R139827** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-121213-R139827** Units: **mg/Kg** Analysis Date: **12/13/2012 08:36 PM**

Client ID: Run ID: **FID-9_121213B** SeqNo: **3052827** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.09051	0.0050	0.1	0	90.5	70-130	0			

LCS Sample ID: **GLCSS-121213-R139827** Units: **mg/Kg** Analysis Date: **12/13/2012 07:58 PM**

Client ID: Run ID: **FID-9_121213B** SeqNo: **3052825** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.049	0.050	1	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	0.09688	0.0050	0.1	0	96.9	70-130	0			

LCSD Sample ID: **GLCSDS-121213-R139827** Units: **mg/Kg** Analysis Date: **12/13/2012 08:17 PM**

Client ID: Run ID: **FID-9_121213B** SeqNo: **3052826** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.01	0.050	1	0	101	70-130	1.049	3.78	30	
Surr: 4-Bromofluorobenzene	0.09475	0.0050	0.1	0	94.7	70-130	0.09688	2.23	30	

MS Sample ID: **1212393-01BMS** Units: **mg/Kg** Analysis Date: **12/13/2012 11:44 PM**

Client ID: **PS -01 @ 22'** Run ID: **FID-9_121213B** SeqNo: **3052840** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9472	0.050	1	0	94.7	70-130	0			
Surr: 4-Bromofluorobenzene	0.08799	0.0050	0.1	0	88	70-130	0			

MSD Sample ID: **1212393-01BMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 12:03 AM**

Client ID: **PS -01 @ 22'** Run ID: **FID-9_121213B** SeqNo: **3052841** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9593	0.050	1	0	95.9	70-130	0.9472	1.27	30	
Surr: 4-Bromofluorobenzene	0.08822	0.0050	0.1	0	88.2	70-130	0.08799	0.27	30	

The following samples were analyzed in this batch:

1212393-01B	1212393-02B	1212393-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66499** Instrument ID **ICPMS05** Method: **SW6020**

MBLK Sample ID: **MBLKS1-121312-66499** Units: **mg/Kg** Analysis Date: **12/13/2012 02:04 PM**

Client ID: Run ID: **ICPMS05_121213A** SeqNo: **3051934** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.50								
Barium	ND	0.50								
Cadmium	ND	0.50								
Chromium	ND	0.50								
Copper	ND	0.50								
Lead	ND	0.50								
Nickel	ND	0.50								
Selenium	ND	0.50								
Silver	ND	0.50								
Vanadium	ND	0.50								

MBLK Sample ID: **MBLKS1-121312-66499** Units: **mg/Kg** Analysis Date: **12/14/2012 01:50 PM**

Client ID: Run ID: **ICP7500_121214A** SeqNo: **3053376** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	ND	0.50								

LCS Sample ID: **MLCSS1-121312-66499** Units: **mg/Kg** Analysis Date: **12/13/2012 02:06 PM**

Client ID: Run ID: **ICPMS05_121213A** SeqNo: **3051935** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.784	0.50	10	0	87.8	80-120	0			
Barium	9.083	0.50	10	0	90.8	80-120	0			
Cadmium	8.739	0.50	10	0	87.4	80-120	0			
Chromium	8.98	0.50	10	0	89.8	80-120	0			
Copper	9.08	0.50	10	0	90.8	80-120	0			
Lead	8.929	0.50	10	0	89.3	80-120	0			
Nickel	8.994	0.50	10	0	89.9	80-120	0			
Selenium	8.91	0.50	10	0	89.1	80-120	0			
Silver	9.049	0.50	10	0	90.5	80-120	0			
Vanadium	8.958	0.50	10	0	89.6	80-120	0			

LCS Sample ID: **MLCSS1-121312-66499** Units: **mg/Kg** Analysis Date: **12/14/2012 01:56 PM**

Client ID: Run ID: **ICP7500_121214A** SeqNo: **3053377** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	9.035	0.50	10	0	90.4	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66499** Instrument ID **ICPMS05** Method: **SW6020**

MS Sample ID: **1212390-07CMS** Units: **mg/Kg** Analysis Date: **12/13/2012 02:33 PM**

Client ID: Run ID: **ICPMS05_121213A** SeqNo: **3051946** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.53	0.48	9.709	2.152	86.2	75-125	0			
Barium	1506	0.48	9.709	1482	251	75-125	0			SEO
Cadmium	9.085	0.48	9.709	0.2273	91.2	75-125	0			
Chromium	18.22	0.48	9.709	8.747	97.6	75-125	0			
Copper	21.39	0.48	9.709	12.13	95.4	75-125	0			
Lead	16.52	0.48	9.709	7.644	91.4	75-125	0			
Nickel	21.71	0.48	9.709	12.4	95.8	75-125	0			
Selenium	8.261	0.48	9.709	0.5678	79.2	75-125	0			
Silver	8.84	0.48	9.709	0	91.1	75-125	0			
Vanadium	23.05	0.48	9.709	13.9	94.2	75-125	0			
Zinc	58.03	0.97	9.709	48.33	99.9	75-125	0			O

MSD Sample ID: **1212390-07CMSD** Units: **mg/Kg** Analysis Date: **12/13/2012 02:35 PM**

Client ID: Run ID: **ICPMS05_121213A** SeqNo: **3051947** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.999	0.48	9.595	2.152	71.4	75-125	10.53	15.6	25	S
Barium	1131	0.48	9.595	1482	-3650	75-125	1506	28.4	25	SREO
Cadmium	8.27	0.48	9.595	0.2273	83.8	75-125	9.085	9.39	25	
Chromium	15.89	0.48	9.595	8.747	74.4	75-125	18.22	13.7	25	S
Copper	19.51	0.48	9.595	12.13	76.9	75-125	21.39	9.21	25	
Lead	15.23	0.48	9.595	7.644	79	75-125	16.52	8.11	25	
Nickel	19.73	0.48	9.595	12.4	76.3	75-125	21.71	9.55	25	
Selenium	6.644	0.48	9.595	0.5678	63.3	75-125	8.261	21.7	25	S
Silver	7.974	0.48	9.595	0	83.1	75-125	8.84	10.3	25	
Vanadium	20.68	0.48	9.595	13.9	70.6	75-125	23.05	10.9	25	S
Zinc	54.57	0.96	9.595	48.33	65.1	75-125	58.03	6.13	25	SO

DUP Sample ID: **1212390-07CDUP** Units: **mg/Kg** Analysis Date: **12/13/2012 02:26 PM**

Client ID: Run ID: **ICPMS05_121213A** SeqNo: **3051943** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.999	0.49	0	0	0	0-0	2.152	7.38	25	
Cadmium	0.1855	0.49	0	0	0	0-0	0.2273	0	25	J
Chromium	8.945	0.49	0	0	0	0-0	8.747	2.24	25	
Copper	11.74	0.49	0	0	0	0-0	12.13	3.19	25	
Lead	7.723	0.49	0	0	0	0-0	7.644	1.03	25	
Nickel	12.92	0.49	0	0	0	0-0	12.4	4.05	25	
Selenium	0.7164	0.49	0	0	0	0-0	0.5678	23.1	25	
Silver	ND	0.49	0	0	0	0-0	0.04249	0	25	
Vanadium	14.15	0.49	0	0	0	0-0	13.9	1.76	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66499** Instrument ID **ICPMS05** Method: **SW6020**

DUP Sample ID: **1212390-07CDUP** Units: **mg/Kg** Analysis Date: **12/14/2012 02:06 PM**
Client ID: Run ID: **ICP7500_121214A** SeqNo: **3053379** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	47.43	0.49	0	0	0	0-0	46.76	1.42	25	

DUP Sample ID: **1212390-07CDUP** Units: **mg/Kg** Analysis Date: **12/14/2012 02:52 PM**
Client ID: Run ID: **ICP7500_121214A** SeqNo: **3053388** Prep Date: **12/13/2012** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	1574	49	0	0	0	0-0	1472	6.66	25	

The following samples were analyzed in this batch:

1212393-01C	1212393-02C	1212393-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66514** Instrument ID **ICP7500** Method: **La29B-6020**

MBLK Sample ID: **BLK-121412-SAR-66514** Units: **mg/L** Analysis Date: **12/17/2012 06:15 PM**

Client ID: Run ID: **ICP7500_121217A** SeqNo: **3056156** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.50								
Sodium	ND	0.50								

LCS Sample ID: **LCS-121412-SAR-66514** Units: **mg/L** Analysis Date: **12/17/2012 06:20 PM**

Client ID: Run ID: **ICP7500_121217A** SeqNo: **3056157** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	10.28	0.50	10	0	103	80-120	0			
Magnesium	10.55	0.50	10	0	106	80-120	0			
Sodium	10.76	0.50	10	0	108	80-120	0			

DUP Sample ID: **1212393-02DDUP** Units: **mg/L** Analysis Date: **12/17/2012 07:40 PM**

Client ID: **PS - 02 @ 23'** Run ID: **ICP7500_121217A** SeqNo: **3056173** Prep Date: **12/13/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	6.751	5.0	0	0	0		6.691	0.892	30	
Magnesium	3.964	2.0	0	0	0		4.364	9.6	30	
Sodium	239.3	5.0	0	0	0		235.8	1.47	30	

The following samples were analyzed in this batch:

1212393-01D	1212393-02D	1212393-03D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66514A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1212393-02DDUP** Units: **meq/meq** Analysis Date: **12/19/2012**
Client ID: **PS - 02 @ 23'** Run ID: **MISC-METALS_121219** SeqNo: **3058503** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	18.06	0.010	0	0	0		17.45	3.44	30	

The following samples were analyzed in this batch:

1212393-01D	1212393-02D	1212393-03D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66522** Instrument ID **HG02** Method: **SW7471A**

MBLK Sample ID: **GBLKS1-121812-66522** Units: **µg/Kg** Analysis Date: **12/18/2012 01:48 PM**

Client ID: Run ID: **HG02_121218A** SeqNo: **3057189** Prep Date: **12/18/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	3.3								

LCS Sample ID: **GLCSS1-121812-66522** Units: **µg/Kg** Analysis Date: **12/18/2012 01:50 PM**

Client ID: Run ID: **HG02_121218A** SeqNo: **3057190** Prep Date: **12/18/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	318	3.3	333.3	0	95.4	85-115	0			

MS Sample ID: **1212379-01CMS** Units: **µg/Kg** Analysis Date: **12/18/2012 02:13 PM**

Client ID: Run ID: **HG02_121218A** SeqNo: **3057196** Prep Date: **12/18/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	333.9	3.5	352.2	12.16	91.3	85-115	0			

MSD Sample ID: **1212379-01CMSD** Units: **µg/Kg** Analysis Date: **12/18/2012 02:23 PM**

Client ID: Run ID: **HG02_121218A** SeqNo: **3057197** Prep Date: **12/18/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	335	3.5	351.9	12.16	91.7	85-115	333.9	0.333	20	

DUP Sample ID: **1212379-01CDUP** Units: **µg/Kg** Analysis Date: **12/18/2012 02:03 PM**

Client ID: Run ID: **HG02_121218A** SeqNo: **3057194** Prep Date: **12/18/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	10.02	3.5	0	0	0		12.16	19.3	20	

The following samples were analyzed in this batch:

1212393-01C	1212393-02C	1212393-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66489** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKS1-121312-66489** Units: **µg/Kg** Analysis Date: **12/13/2012 05:04 PM**
 Client ID: Run ID: **SV-4_121213B** SeqNo: **3055724** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Pyrene	ND	6.6								
Surr: 2-Fluorobiphenyl	158.1	6.6	166.7	0	94.9	43-125	0			
Surr: 4-Terphenyl-d14	174.5	6.6	166.7	0	105	32-125	0			
Surr: Nitrobenzene-d5	152.2	6.6	166.7	0	91.3	37-125	0			

LCS Sample ID: **SLCSS1-121312-66489** Units: **µg/Kg** Analysis Date: **12/13/2012 05:24 PM**
 Client ID: Run ID: **SV-4_121213B** SeqNo: **3055725** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	147.1	6.6	166.7	0	88.2	50-120	0			
Anthracene	154.4	6.6	166.7	0	92.6	50-123	0			
Benz(a)anthracene	153.9	6.6	166.7	0	92.3	50-131	0			
Benzo(a)pyrene	107.1	6.6	166.7	0	64.2	50-130	0			
Benzo(b)fluoranthene	116	6.6	166.7	0	69.6	50-137	0			
Benzo(k)fluoranthene	96.75	6.6	166.7	0	58	50-143	0			
Chrysene	147	6.6	166.7	0	88.2	50-130	0			
Dibenz(a,h)anthracene	107.7	6.6	166.7	0	64.6	50-130	0			
Fluoranthene	158	6.6	166.7	0	94.8	50-131	0			
Fluorene	148.6	6.6	166.7	0	89.2	50-125	0			
Indeno(1,2,3-cd)pyrene	113.3	6.6	166.7	0	68	45-139	0			
Naphthalene	147.5	6.6	166.7	0	88.5	50-125	0			
Pyrene	149.8	6.6	166.7	0	89.9	45-130	0			
Surr: 2-Fluorobiphenyl	148.9	6.6	166.7	0	89.3	43-125	0			
Surr: 4-Terphenyl-d14	171.6	6.6	166.7	0	103	32-125	0			
Surr: Nitrobenzene-d5	143.7	6.6	166.7	0	86.2	37-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
 Work Order: 1212393
 Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66489** Instrument ID **SV-4** Method: **SW8270**

MS Sample ID: **1212390-07CMS** Units: **µg/Kg** Analysis Date: **12/13/2012 11:28 PM**
 Client ID: Run ID: **SV-4_121213B** SeqNo: **3055727** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	124.5	6.6	166.5	0	74.8	50-120	0			
Anthracene	137.5	6.6	166.5	0	82.6	50-123	0			
Benz(a)anthracene	127.9	6.6	166.5	0	76.8	50-131	0			
Benzo(a)pyrene	93.65	6.6	166.5	0	56.2	50-130	0			
Benzo(b)fluoranthene	87.44	6.6	166.5	0	52.5	50-137	0			
Benzo(k)fluoranthene	99.58	6.6	166.5	0	59.8	50-143	0			
Chrysene	133.3	6.6	166.5	4.711	77.2	50-130	0			
Dibenz(a,h)anthracene	95.87	6.6	166.5	0	57.6	50-130	0			
Fluoranthene	121.1	6.6	166.5	0	72.7	50-131	0			
Fluorene	134.6	6.6	166.5	5.563	77.5	50-125	0			
Indeno(1,2,3-cd)pyrene	90.6	6.6	166.5	0	54.4	45-139	0			
Naphthalene	154.2	6.6	166.5	21.84	79.5	50-125	0			
Pyrene	140.4	6.6	166.5	0	84.3	45-130	0			
Surr: 2-Fluorobiphenyl	120.9	6.6	166.5	0	72.6	43-125	0			
Surr: 4-Terphenyl-d14	147	6.6	166.5	0	88.3	32-125	0			
Surr: Nitrobenzene-d5	126.6	6.6	166.5	0	76	37-125	0			

MSD Sample ID: **1212390-07CMSD** Units: **µg/Kg** Analysis Date: **12/13/2012 11:48 PM**
 Client ID: Run ID: **SV-4_121213B** SeqNo: **3055728** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	125.8	6.6	166.6	0	75.5	50-120	124.5	0.998	30	
Anthracene	144.7	6.6	166.6	0	86.9	50-123	137.5	5.05	30	
Benz(a)anthracene	94.86	6.6	166.6	0	57	50-131	127.9	29.6	30	
Benzo(a)pyrene	97.34	6.6	166.6	0	58.4	50-130	93.65	3.87	30	
Benzo(b)fluoranthene	132.8	6.6	166.6	0	79.7	50-137	87.44	41.2	30	R
Benzo(k)fluoranthene	111.6	6.6	166.6	0	67	50-143	99.58	11.4	30	
Chrysene	131.5	6.6	166.6	4.711	76.1	50-130	133.3	1.35	30	
Dibenz(a,h)anthracene	96.13	6.6	166.6	0	57.7	50-130	95.87	0.276	30	
Fluoranthene	108.7	6.6	166.6	0	65.3	50-131	121.1	10.8	30	
Fluorene	133	6.6	166.6	5.563	76.5	50-125	134.6	1.17	30	
Indeno(1,2,3-cd)pyrene	102.5	6.6	166.6	0	61.5	45-139	90.6	12.3	30	
Naphthalene	144.3	6.6	166.6	21.84	73.5	50-125	154.2	6.63	30	
Pyrene	120	6.6	166.6	0	72	45-130	140.4	15.7	30	
Surr: 2-Fluorobiphenyl	121.4	6.6	166.6	0	72.9	43-125	120.9	0.459	30	
Surr: 4-Terphenyl-d14	130.8	6.6	166.6	0	78.6	32-125	147	11.6	30	
Surr: Nitrobenzene-d5	95.6	6.6	166.6	0	57.4	37-125	126.6	27.9	30	

The following samples were analyzed in this batch:

1212393-01C 1212393-02C 1212393-03C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
 Work Order: 1212393
 Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R139878** Instrument ID **VOA7** Method: **SW8260**

MBLK Sample ID: **VBLKS1-121214-R139878** Units: **µg/Kg** Analysis Date: **12/14/2012 11:14 AM**

Client ID: Run ID: **VOA7_121214A** SeqNo: **3054014** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	53.87	0	50	0	108	70-128	0			
Surr: 4-Bromofluorobenzene	49.44	0	50	0	98.9	73-126	0			
Surr: Dibromofluoromethane	52.43	0	50	0	105	71-128	0			
Surr: Toluene-d8	48.67	0	50	0	97.3	73-127	0			

LCS Sample ID: **VLCSS1-121214-R139878** Units: **µg/Kg** Analysis Date: **12/14/2012 10:49 AM**

Client ID: Run ID: **VOA7_121214A** SeqNo: **3054013** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.91	5.0	50	0	93.8	79-120	0			
Ethylbenzene	50.67	5.0	50	0	101	80-122	0			
Toluene	48.52	5.0	50	0	97	79-120	0			
Xylenes, Total	150.3	15	150	0	100	80-120	0			
Surr: 1,2-Dichloroethane-d4	51.63	0	50	0	103	70-128	0			
Surr: 4-Bromofluorobenzene	49.45	0	50	0	98.9	73-126	0			
Surr: Dibromofluoromethane	52.89	0	50	0	106	71-128	0			
Surr: Toluene-d8	49.89	0	50	0	99.8	73-127	0			

MS Sample ID: **1212210-07ZMS** Units: **µg/Kg** Analysis Date: **12/14/2012 04:16 PM**

Client ID: Run ID: **VOA7_121214A** SeqNo: **3054023** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.56	5.0	50	0	79.1	79-120	0			
Ethylbenzene	40.35	5.0	50	0.5689	79.6	80-122	0			S
Toluene	39.79	5.0	50	0	79.6	79-120	0			
Xylenes, Total	119.1	15	150	0	79.4	80-120	0			S
Surr: 1,2-Dichloroethane-d4	55.5	0	50	0	111	70-128	0			
Surr: 4-Bromofluorobenzene	49.07	0	50	0	98.1	73-126	0			
Surr: Dibromofluoromethane	55.46	0	50	0	111	71-128	0			
Surr: Toluene-d8	48.4	0	50	0	96.8	73-127	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R139878** Instrument ID **VOA7** Method: **SW8260**

MSD Sample ID: **1212210-07ZMSD** Units: **µg/Kg** Analysis Date: **12/14/2012 04:42 PM**

Client ID: Run ID: **VOA7_121214A** SeqNo: **3054024** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.45	5.0	50	0	82.9	79-120	39.56	4.66	30	
Ethylbenzene	42.64	5.0	50	0.5689	84.1	80-122	40.35	5.53	30	
Toluene	41.46	5.0	50	0	82.9	79-120	39.79	4.1	30	
Xylenes, Total	126.9	15	150	0	84.6	80-120	119.1	6.3	30	
Surr: 1,2-Dichloroethane-d4	53.44	0	50	0	107	70-128	55.5	3.78	30	
Surr: 4-Bromofluorobenzene	49.65	0	50	0	99.3	73-126	49.07	1.17	30	
Surr: Dibromofluoromethane	54.31	0	50	0	109	71-128	55.46	2.09	30	
Surr: Toluene-d8	48.57	0	50	0	97.1	73-127	48.4	0.349	30	

The following samples were analyzed in this batch:

1212393-01A	1212393-02A	1212393-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **66533** Instrument ID **UV-2450** Method: **SW7196** **(Dissolve)**

MBLK Sample ID: **WBLKS1-121912-66533** Units: **mg/kg** Analysis Date: **12/19/2012 09:05 AM**

Client ID: Run ID: **UV-2450_121219A** SeqNo: **3058929** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	2.0								

LCS Sample ID: **WLCSS1-121912-66533** Units: **mg/kg** Analysis Date: **12/19/2012 09:05 AM**

Client ID: Run ID: **UV-2450_121219A** SeqNo: **3058930** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	9.4	2.0	10	0	94	80-120	0			

LCSD Sample ID: **WLCSDS1-121912-66533** Units: **mg/kg** Analysis Date: **12/19/2012 09:05 AM**

Client ID: Run ID: **UV-2450_121219A** SeqNo: **3058950** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	9.56	2.0	10	0	95.6	80-120	9.4	1.69	20	

MS Sample ID: **1212393-01CMS** Units: **mg/kg** Analysis Date: **12/19/2012 09:05 AM**

Client ID: **PS -01 @ 22'** Run ID: **UV-2450_121219A** SeqNo: **3058947** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.33	2.0	9.822	0	105	75-125	0			

The following samples were analyzed in this batch:

1212393-01C	1212393-02C	1212393-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R139888** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **WLCSS1-121215-R139888** Units: **pH Units** Analysis Date: **12/15/2012 12:30 PM**

Client ID: Run ID: **WETCHEM_121215C** SeqNo: **3054217** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.98	0.10	6	0	99.7	90-110	0			

DUP Sample ID: **1212494-01ADUP** Units: **pH Units** Analysis Date: **12/15/2012 12:30 PM**

Client ID: Run ID: **WETCHEM_121215C** SeqNo: **3054240** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.72	0.10	0	0	0	0-0	8.77	0.572	20	

The following samples were analyzed in this batch:

1212393-01C	1212393-02C	1212393-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Work Order: 1212393
Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R140036** Instrument ID **Balance1** Method: **LaDNR-29B SP (Dissolve)**

DUP Sample ID: **1212390-05DDUP** Units: % Saturation as D Analysis Date: **12/18/2012 12:50 PM**

Client ID: Run ID: **BALANCE1_121218A** SeqNo: **3057418** Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.338	0.10	0	0	0		0.346	2.34	30	

The following samples were analyzed in this batch:

1212393-01D	1212393-02D	1212393-03D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
 Work Order: 1212393
 Project: 027312008 Kaufman 3

QC BATCH REPORT

Batch ID: **R140040** Instrument ID **BALANCE1** Method: **LaDNR-29B EC (Dissolve)**

MBLK Sample ID: **WBLKW1-121812-R140040** Units: **mmhos/cm @25°** Analysis Date: **12/18/2012 01:00 PM**

Client ID: Run ID: **BALANCE1_121218B** SeqNo: **3057451** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	ND	0.010								
Electrical Conductivity, 1:1 aqueous	ND	0.010								
Saturation % as decimal	ND	0								

LCS Sample ID: **WLCSW1-121812-R140040** Units: **mmhos/cm @25°** Analysis Date: **12/18/2012 01:00 PM**

Client ID: Run ID: **BALANCE1_121218B** SeqNo: **3057452** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	1.4	0.010	1.412	0	99.2	90-110	0			

DUP Sample ID: **1212390-05DDUP** Units: **mmhos/cm @25°** Analysis Date: **12/18/2012 01:00 PM**

Client ID: Run ID: **BALANCE1_121218B** SeqNo: **3057463** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	2.779	0.010	0	0	0		2.797	0.646	20	
Electrical Conductivity, 1:1 aqueous	0.939	0.010	0	0	0		0.967	2.94	20	
Saturation % as decimal	0.338	0	0	0	0		0.346	2.34		

The following samples were analyzed in this batch:

1212393-01D	1212393-02D	1212393-03D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 20-Dec-12

Client: LT Environmental
Project: 027312008 Kaufman 3
WorkOrder: 1212393

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
% Saturation as Decimal	
µg/Kg	Micrograms per Kilogram
meq/meq	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mmhos/cm @25°C	
pH Units	

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL**

Date/Time Received: **12-Dec-12 09:20**

Work Order: **1212393**

Received by: **JBA**

Checklist completed by Johanna B. Allen
eSignature

12-Dec-12
Date

Reviewed by: Patricia L. Lynch
eSignature

13-Dec-12
Date

Matrices: **water**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.0 C/uc</u> <u>005</u>		
Cooler(s)/Kit(s):	<u>Large Blue/White</u>		
Date/Time sample(s) sent to storage:	<u>12/12/12 13:55</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u>-</u>		
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

CLIENT CONTACT AND REPORTING INFORMATION						(INVOICE ADDRESS (if other than shipping address)) ANALYSIS DES.								
Company Name: LT Environmental, Inc														
Project Manager: Brian Dodek/Rob Fishtun														
Address: 820 Megan Ave Unit B Rile, CO 81650														
Phone: 970.285.9985														
Email 1: bdodek@ltenv.com														
Email 2: rfishtun@ltenv.com, liancek@ltenv.com														
SERVICE REQUEST (Express services subject to availability)														
<input checked="" type="checkbox"/> Regular (default)														
<input type="checkbox"/> Express (Pls specify date required) (express fee will apply)														
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (#)	SAMPLING AND CONTAINER INFO		REMARKS	TPH, DRO, GRO	EC	PH	SAR	TOTAL ARSENIC	TABLE 910 METALS	TABLE 910 PAH'S	BTEX	ARSENIC
	PS-01@22'	S	Date:	Time:	For Bottle	X	X	X	X	X	X	X	X	X
	PS-02@23'	S	12/11/2012	1250	ph / le	X	X	X	X	X	X	X	X	X
	FS-01	S	12/11/2012	1255	ph / le	X	X	X	X	X	X	X	X	X
			12/11/2012	1240	4	X	X	X	X	X	X	X	X	X
Request EED in LT electronic format														

CLIENT SIGNATURES

Client's Signature: *[Signature]*

Client's Date and Time of Completion: 12/11/12 11:15

FOR LAB USE ONLY

No of Cooler Received: *[Initials]*

Courier Name: *[Signature]*

Sample Temp: *40* deg C
☒ Chilled ☐ ambient

Cooler Security Seal: *[Seal]*
☒ sealed ☐ broken ☐ not available

Received by (lab): *[Signature]*

Committed by: *[Signature]*

Date and Time: 12/12/12 09:00

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment) OS (Other solid material)

ALS Technichem (HK) Pty Ltd
Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

From: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA

FedEx
Express



J12201209200325

127 E First Street

PARACHUTE, CO 81635

Ship Date: 11DEC12
ActWgt: 72.0 LB
CAD: 103923490/INET3300

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code



SHIP TO: (281) 530-5656

BILL RECIPIENT

Sample Receiving
ALS Environmental - Texas
10450 STANCLIFF RD
STE 210
HOUSTON, TX 77099

Ref # 1001-121112-3
Invoice #
PO #
Dept #

WED - 12 DEC A1
PRIORITY OVERNIGHT

TRK# 7942 7817 1777

0201

77099

TX-US

IAH

XH SGRA



515G1/B2B3/AA44

WH2TJL-1
Time: 1:17 PM

Custody seal

1-17 PM
Days
Graham