

NM2 - 3

**MONITORING
REPORTS
YEAR(S):**

2012

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OCD

SENT VIA CERTIFIED MAIL
7011 1570 0002 2817 3407

2012 NOV 28 P 2: 46

November 26, 2012

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: BP America Production Company
Crouch Mesa Waste Management Facility, Permit NM-02-003
Annual Report on Treatment Zone Monitoring

Dear Mr. Jones:

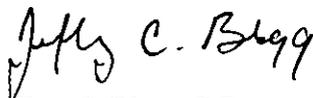
On behalf of BP America Production Company, Blagg Engineering, Inc. (BEI) is submitting the 2012 annual treatment zone monitoring test results for the Crouch Mesa Waste Management Facility pursuant to Permit NM-02-003, dated November 25, 1998. This report is for the December 1, 2011 through November 30, 2012 reporting period. Analytical test results (attached) indicate the facility met standards with each sample event.

The landfarm is presently configured into three (3) active cells, identified as Cell 1, Cell 2 and Cell 5 (Figure 1). The northeast portion of the facility (identified as 'unused cell') is used for equipment, materials and unused compost media storage only.

Sampling protocol specifies collection of subsurface samples in each cell from the native ground surface below the treatment zone during quarterly monitoring. Quarterly test procedures include total petroleum hydrocarbons (TPH), chloride and benzene, toluene, ethyl-benzene and xylenes (BTEX). Heavy metals and major cations/anions are to be collected for at least one quarterly sample event. During this reporting period, metals and cations/anions were tested on the October 22, 2012 sample event.

Questions or comments concerning the this transmittal may be directed to myself at (505)632-1199 or to Jeff Peace with BP at (505)326-9200.

Respectfully submitted:
Blagg Engineering, Inc.



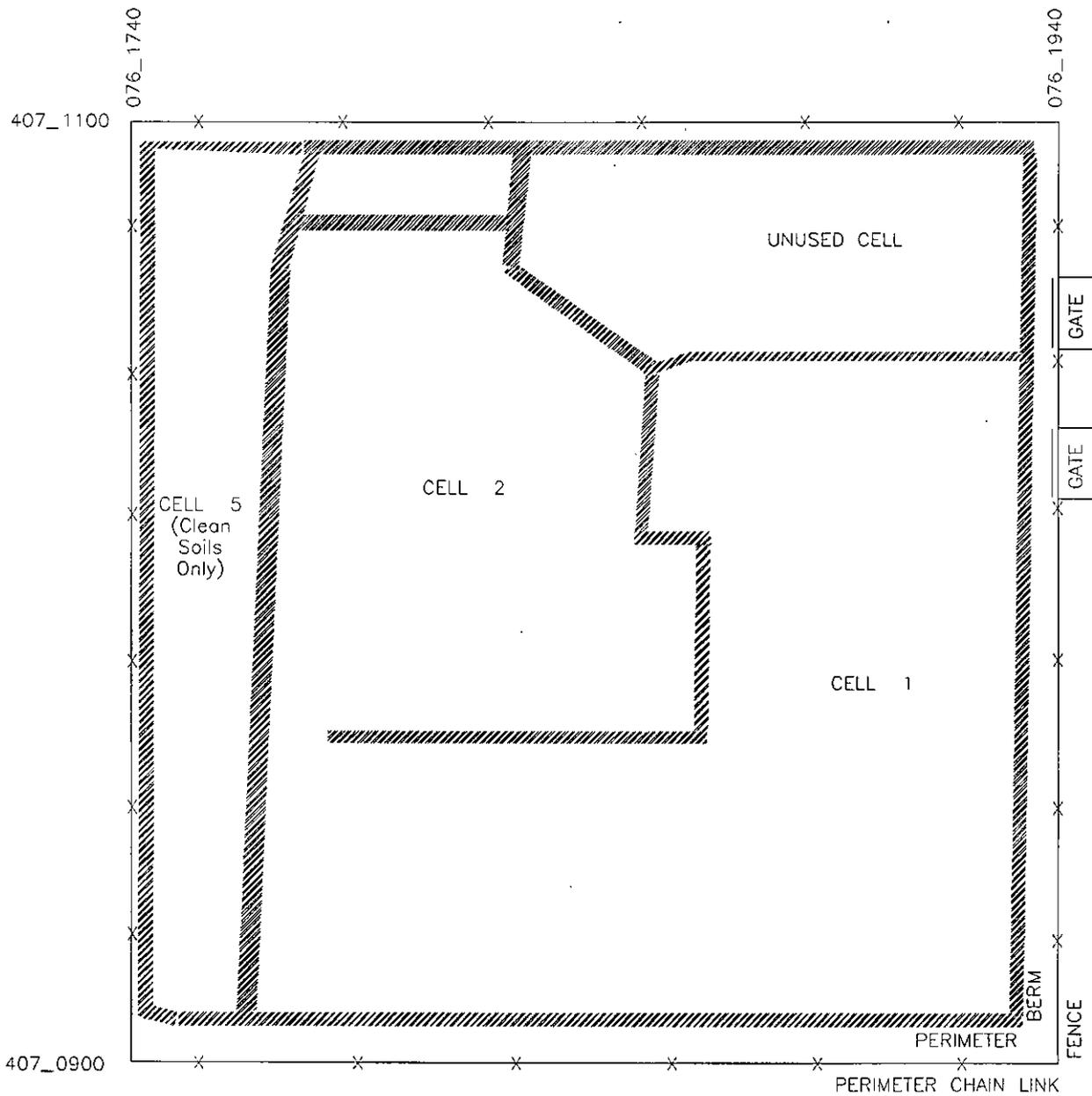
Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Soil Treatment Zone Monitoring Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jeff Peace, BP San Juan Operations Center

Blagg Engineering, Inc.
Consulting Engineers

BP America Production Company
Crouch Mesa Waste Management Facility



LEGEND

 6' TALL CHAIN LINK FENCE
 SOIL BERM



 0 200 400 FEET

BP AMERICA PRODUCTION CO.
 CROUCH MESA WASTE MGMT FAC
 SW/4 SE/4 SEC 2 T29N R12W
 SAN JUAN CO., NEW MEXICO

NOVEMBER 2012

BLAGG ENGINEERING, INC.
 CONSULTING ENGINEERING SERVICES

P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

**SITE
 SCHEMATIC**

FIGURE 1

DRWN BY:
 JCB

CRMESA4

PROJ MGR:
 JCB



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 09, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Crouch Mesa Landfarm

OrderNo.: 1204092

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/3/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 1

Project: Crouch Mesa Landfarm

Collection Date: 3/28/2012 2:20:00 PM

Lab ID: 1204092-001

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	4/5/2012 1:11:44 PM
Surr: DNOP	106	77.4-131		%REC	1	4/5/2012 1:11:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2012 7:45:03 PM
Surr: BFB	95.1	69.7-121		%REC	1	4/5/2012 7:45:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/5/2012 7:45:03 PM
Toluene	ND	0.049		mg/Kg	1	4/5/2012 7:45:03 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2012 7:45:03 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2012 7:45:03 PM
Surr: 4-Bromofluorobenzene	90.0	80-120		%REC	1	4/5/2012 7:45:03 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	4/5/2012 9:31:35 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 2

Project: Crouch Mesa Landfarm

Collection Date: 3/28/2012 2:50:00 PM

Lab ID: 1204092-002

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	13	10		mg/Kg	1	4/5/2012 1:36:45 PM
Surr: DNOP	81.0	77.4-131		%REC	1	4/5/2012 1:36:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2012 8:13:49 PM
Surr: BFB	97.6	69.7-121		%REC	1	4/5/2012 8:13:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/5/2012 8:13:49 PM
Toluene	0.056	0.049		mg/Kg	1	4/5/2012 8:13:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2012 8:13:49 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2012 8:13:49 PM
Surr: 4-Bromofluorobenzene	92.0	80-120		%REC	1	4/5/2012 8:13:49 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	12	1.5		mg/Kg	1	4/5/2012 9:43:59 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 5

Project: Crouch Mesa Landfarm

Collection Date: 3/28/2012 3:30:00 PM

Lab ID: 1204092-003

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/5/2012 2:02:10 PM
Surr: DNOP	92.3	77.4-131		%REC	1	4/5/2012 2:02:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2012 8:42:36 PM
Surr: BFB	95.2	69.7-121		%REC	1	4/5/2012 8:42:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/5/2012 8:42:36 PM
Toluene	ND	0.048		mg/Kg	1	4/5/2012 8:42:36 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2012 8:42:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/5/2012 8:42:36 PM
Surr: 4-Bromofluorobenzene	90.5	80-120		%REC	1	4/5/2012 8:42:36 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	2.5	1.5		mg/Kg	1	4/5/2012 9:56:24 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204092

09-Apr-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-1374	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	1374	RunNo:	1929					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53717	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-1374	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	1374	RunNo:	1929					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Sample ID	1204092-003AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 5	Batch ID:	1374	RunNo:	1929					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53724	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	2.493	92.6	74.6	118			

Sample ID	1204092-003AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 5	Batch ID:	1374	RunNo:	1929					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53725	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	2.493	92.5	74.6	118	0.0833	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1204092
 09-Apr-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID MB-1369	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 1369	RunNo: 1889								
Prep Date: 4/4/2012	Analysis Date: 4/4/2012	SeqNo: 52862	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		82.2	77.4	131			

Sample ID LCS-1369	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 1369	RunNo: 1889								
Prep Date: 4/4/2012	Analysis Date: 4/4/2012	SeqNo: 52877	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	62.7	139			
Surr: DNOP	4.0		5.000		79.7	77.4	131			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204092

09-Apr-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-1361	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1361	RunNo:	1907					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53409	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1,000		97.8	69.7	121			

Sample ID	LCS-1361	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1361	RunNo:	1907					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53410	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	124	98.5	133			
Surr: BFB	1,100		1,000		107	69.7	121			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204092

09-Apr-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-1361	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	1361	RunNo:	1908					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53510	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	80	120			

Sample ID	LCS-1361	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	1361	RunNo:	1908					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53511	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.5	83.3	107			
Toluene	0.92	0.050	1.000	0	91.8	74.3	115			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80.9	122			
Xylenes, Total	2.7	0.10	3.000	0	91.5	85.2	123			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	80	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1204092
 Received by/date: LM 04/03/12
 Logged By: **Michelle Garcia** 4/3/2012 10:30:00 AM *Michelle Garcia*
 Completed By: **Michelle Garcia** 4/3/2012 11:27:04 AM *Michelle Garcia*
 Reviewed By: *[Signature]* 04/03/12

Chain of Custody

- Were seals intact? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Grayhound

Log In

- Coolers are present? (see 19. for cooler specific information) Yes No NA
- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 08, 2012

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: Crouch Mesa Landfarm

OrderNo.: 1206102

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206102

08-Jun-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-2259	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	2259	RunNo	3259					
Prep Date	6/8/2012	Analysis Date	6/6/2012	SeqNo	90444	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-2259	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	2259	RunNo	3259					
Prep Date	6/6/2012	Analysis Date	6/6/2012	SeqNo	90445	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206102

08-Jun-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-2257	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2257	RunNo:	3222					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	89850	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		110	82.1	121			

Sample ID	LCS-2257	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2257	RunNo:	3222					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	89851	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	52.6	130			
Surr: DNOP	4.9		5.000		98.9	82.1	121			

Sample ID	MB-2300	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2300	RunNo:	3291					
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	SeqNo:	91877	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	77.6	140			

Sample ID	LCS-2300	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2300	RunNo:	3291					
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	SeqNo:	91992	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	77.6	140			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
L Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206102

08-Jun-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB 2252	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R3296	RunNo:	3296					
Prep Date:		Analysis Date:	6/7/2012	SeqNo:	91759	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.4	69.7	121			

Sample ID	LCS-2252	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91760	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	98.5	133			
Surr: BFB	980		1000		97.5	69.7	121			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206102

08-Jun-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB 2252	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R3296	RunNo:	3296					
Prep Date:		Analysis Date:	6/7/2012	SeqNo:	91853	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			

Sample ID	LCS-2252	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91854	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	83.3	107			
Toluene	0.99	0.050	1.000	0	99.1	74.3	115			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	99.1	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1206102**

Received by/date: LM 06/05/12

Logged By: **Anne Thorne** 6/5/2012 9:50:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 6/5/2012 *Anne Thorne*

Reviewed By: *[Signature]* 06/05/12

Chain of Custody

- Were seals intact? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Courier

Log In

- Coolers are present? (see 19. for cooler specific information) Yes No NA
- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.7	Good	Yes			

Chain-of-Custody Record

Client: **BLAGG ENGINEERING INC.**
BP AMERICA
 Mailing Address: **P.O. Box 87**
BLOOMFIELD, NM 87413
 Phone #: **505-632-1199**
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
 Project Name:
CROUCH MESA LANDFARM
 Project #:
 Project Manager:
J. Blagg
 Sampler: **J. Blagg**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE + TPB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Pollution (VOCs)
5/31/12	0905	SOIL	CELL 1	4oz x 1	COOL	-001	X		X									X	
"	0940	"	CELL 2	"	"	-002	X		X									X	
"	1010	"	CELL 5	"	"	-003	X		X									X	

Date: 6/1/12 Time: 1335 Relinquished by: *Jeff Blagg*
 Received by: *Christine Walker* Date: 6/1/12 Time: 1335
 Date: 6/4/12 Time: 1747 Relinquished by: *Christine Walker*
 Received by: *[Signature]* Date: 6/5/12 Time: 0950

Remarks: **GRO + DRO ON 8015B**
PK: ZPEACJDENV
CONTACT: JEFF PEACE
WO: PENDING

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any subcontracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 06, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Crouch Mesa Landfarm Quarterly

OrderNo.: 1207D23

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/31/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1207D23

Date Reported: 8/6/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell #2

Project: Crouch Mesa Landfarm Quarterly

Collection Date: 7/30/2012 9:25:00 AM

Lab ID: 1207D23-002

Matrix: SOIL

Received Date: 7/31/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/1/2012 2:46:48 PM
Surr: DNOP	102	77.6-140		%REC	1	8/1/2012 2:46:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2012 12:31:53 AM
Surr: BFB	102	84-116		%REC	1	8/2/2012 12:31:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	8/2/2012 12:31:53 AM
Toluene	ND	0.050		mg/Kg	1	8/2/2012 12:31:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2012 12:31:53 AM
Xylenes, Total	ND	0.099		mg/Kg	1	8/2/2012 12:31:53 AM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	8/2/2012 12:31:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	8/2/2012 9:30:24 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell #5

Project: Crouch Mesa Landfarm Quarterly

Collection Date: 7/30/2012 9:40:00 AM

Lab ID: 1207D23-003

Matrix: SOIL

Received Date: 7/31/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/2/2012 8:11:41 AM
Surr: DNOP	104	77.6-140		%REC	1	8/2/2012 8:11:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/2/2012 1:00:30 AM
Surr: BFB	99.3	84-116		%REC	1	8/2/2012 1:00:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/2/2012 1:00:30 AM
Toluene	ND	0.048		mg/Kg	1	8/2/2012 1:00:30 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/2/2012 1:00:30 AM
Xylenes, Total	ND	0.095		mg/Kg	1	8/2/2012 1:00:30 AM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	8/2/2012 1:00:30 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	8/2/2012 9:55:14 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank
 E Value above quantitation range .H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits RL Reporting Detection Limit
 S Spike Recovery outside accepted recovery limits U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207D23

06-Aug-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm Quarterly

Sample ID	MB-3117	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	3117	RunNo:	4554					
Prep Date:	7/31/2012	Analysis Date:	8/1/2012	SeqNo:	127853	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	77.6	140			

Sample ID	LCS-3117	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	3117	RunNo:	4554					
Prep Date:	7/31/2012	Analysis Date:	8/1/2012	SeqNo:	127881	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.6	52.6	130			
Surr: DNOP	4.1		5.000		81.1	77.6	140			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1207D23
 06-Aug-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm Quarterly

Sample ID MB-3118	SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: PBS	Batch ID: 3118		RunNo: 4574							
Prep Date: 7/31/2012	Analysis Date: 8/1/2012		SeqNo: 129323				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.4	84	116			

Sample ID LCS-3118	SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: LCSS	Batch ID: 3118		RunNo: 4574							
Prep Date: 7/31/2012	Analysis Date: 8/1/2012		SeqNo: 129324				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	85	115			
Surr: BFB	1000		1000		101	84	116			

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207D23
06-Aug-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm Quarterly

Sample ID: MB-3118	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 3118	RunNo: 4574								
Prep Date: 7/31/2012	Analysis Date: 8/1/2012	SeqNo: 129348	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-3118	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 3118	RunNo: 4574								
Prep Date: 7/31/2012	Analysis Date: 8/1/2012	SeqNo: 129349	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.7	76.3	117			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	77	116			
Xylenes, Total	3.0	0.10	3.000	0	99.4	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

- | | |
|--|--|
| *X Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1207D23**
 Received by/date: KG 07/31/12
 Logged By: **Lindsay Mangin** 7/31/2012 9:55:00 AM *[Signature]*
 Completed By: **Lindsay Mangin** 7/31/2012 10:54:05 AM *[Signature]*
 Reviewed By: mg 07/31/12

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 8.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. Were all holding times able to be met? (if no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Client: **BAEG Environmental Inc.**

BP America

Mailing Address: **P.O. Box 87**

Bloomfield, NM 87413

Phone #: **505-632-1199**

email or Fax#:

Project Manager:

Jeff Bate

QANOC Package: Standard Level 4 (Full Validation)

Accreditation

NELAP Other

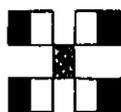
EDD (Type)

Sampler: **JEFF BATE**

Standard Rush

Project Name: **CROCK MESA LANDFILL**

Project #: **QUARTERLY**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Analysis Request
7/30/12	0905	Soil	CELL #1	4oz K1	COA	X BTEX + MTBE + TPH 's (8021) X BTEX + MTBE + TPH (Gas only) X TPH Method 8015B (Gas/Diesel) X TPH (Method 418.1) X EDB (Method 504.1) X 8310 (PNA or PAH) X RCRA 8 Metals X Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) X 8081 Pesticides / 8082 PCB's X 8260B (VOA) X 8270 (Semi-VOA) X CHLORIDE
u	0925	"	CELL #2	"	"	X X X X X X X X X X
u	0940	"	CELL #5	"	"	X X X X X X X X X X

Relinquished by:

Jeff Bate

Received by:

Michelle Wheeler

Date: 7/30/12

Time: 1544

Date: 7/31/12

Time: 1544

Remarks: **GRD VADL ON B015B
W0: N1500038
PK: Z REACTDEN
COURTESY, JEFF BATE**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly marked on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 21, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Crouch Mesa Landfarm

OrderNo.: 1210C58

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/27/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 1

Project: Crouch Mesa Landfarm

Collection Date: 10/22/2012 2:45:00 PM

Lab ID: 1210C58-001

Matrix: SOIL

Received Date: 10/27/2012 2:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/30/2012 8:28:34 AM
Surr: DNOP	97.9	77.6-140		%REC	1	10/30/2012 8:28:34 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/30/2012 10:30:04 PM
Surr: BFB	94.6	84-116		%REC	1	10/30/2012 10:30:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/30/2012 10:30:04 PM
Toluene	ND	0.048		mg/Kg	1	10/30/2012 10:30:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/30/2012 10:30:04 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/30/2012 10:30:04 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	10/30/2012 10:30:04 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	1.5		mg/Kg	5	11/6/2012 8:18:54 AM
Chloride	ND	7.5		mg/Kg	5	11/6/2012 8:18:54 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/6/2012 8:18:54 AM
Bromide	ND	1.5		mg/Kg	5	11/6/2012 8:18:54 AM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	11/6/2012 8:18:54 AM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	11/6/2012 8:18:54 AM
Sulfate	4600	75		mg/Kg	50	11/6/2012 9:08:33 AM
EPA METHOD 7471: MERCURY						Analyst: JLF
Mercury	ND	0.033		mg/Kg	1	11/1/2012 4:22:06 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	3.2	2.5		mg/Kg	1	11/2/2012 6:37:10 PM
Barium	9.0	0.10		mg/Kg	1	11/2/2012 6:37:10 PM
Cadmium	ND	0.10		mg/Kg	1	11/2/2012 6:37:10 PM
Calcium	14000	120		mg/Kg	5	11/6/2012 1:08:53 PM
Chromium	2.0	0.30		mg/Kg	1	11/2/2012 6:37:10 PM
Lead	2.9	0.25		mg/Kg	1	11/2/2012 6:37:10 PM
Magnesium	770	25		mg/Kg	1	11/6/2012 1:05:52 PM
Potassium	390	50		mg/Kg	1	11/6/2012 1:05:52 PM
Selenium	ND	2.5		mg/Kg	1	11/2/2012 6:37:10 PM
Silver	ND	0.25		mg/Kg	1	11/13/2012 5:38:37 AM
Sodium	65	25		mg/Kg	1	11/6/2012 1:05:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 2

Project: Crouch Mesa Landfarm

Collection Date: 10/22/2012 2:30:00 PM

Lab ID: 1210C58-002

Matrix: SOIL

Received Date: 10/27/2012 2:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/30/2012 9:33:53 AM
Surr: DNOP	98.7	77.6-140		%REC	1	10/30/2012 9:33:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/30/2012 10:58:42 PM
Surr: BFB	94.5	84-116		%REC	1	10/30/2012 10:58:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/30/2012 10:58:42 PM
Toluene	ND	0.048		mg/Kg	1	10/30/2012 10:58:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/30/2012 10:58:42 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/30/2012 10:58:42 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	10/30/2012 10:58:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	1.5		mg/Kg	5	11/6/2012 9:20:58 AM
Chloride	20	7.5		mg/Kg	5	11/6/2012 9:20:58 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/6/2012 9:20:58 AM
Bromide	ND	1.5		mg/Kg	5	11/6/2012 9:20:58 AM
Nitrogen, Nitrate (As N)	65	1.5		mg/Kg	5	11/6/2012 9:20:58 AM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	11/6/2012 9:20:58 AM
Sulfate	740	30		mg/Kg	20	11/6/2012 9:33:23 AM
EPA METHOD 7471: MERCURY						Analyst: JLF
Mercury	ND	0.033		mg/Kg	1	11/1/2012 4:23:57 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	2.5		mg/Kg	1	11/2/2012 6:39:36 PM
Barium	120	0.50		mg/Kg	5	11/6/2012 1:14:26 PM
Cadmium	ND	0.10		mg/Kg	1	11/2/2012 6:39:36 PM
Calcium	6400	120		mg/Kg	5	11/6/2012 1:14:26 PM
Chromium	4.0	0.30		mg/Kg	1	11/2/2012 6:39:36 PM
Lead	2.2	0.25		mg/Kg	1	11/2/2012 6:39:36 PM
Magnesium	2600	120		mg/Kg	5	11/6/2012 1:14:26 PM
Potassium	1300	250		mg/Kg	5	11/6/2012 1:14:26 PM
Selenium	ND	2.5		mg/Kg	1	11/2/2012 6:39:36 PM
Silver	ND	0.50		mg/Kg	2	11/13/2012 5:42:21 AM
Sodium	ND	120		mg/Kg	5	11/6/2012 1:14:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1210C58

Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 5

Project: Crouch Mesa Landfarm

Collection Date: 10/22/2012 3:00:00 PM

Lab ID: 1210C58-003

Matrix: SOIL

Received Date: 10/27/2012 2:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/30/2012 9:55:38 AM
Surr: DNOP	103	77.6-140		%REC	1	10/30/2012 9:55:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/30/2012 11:27:34 PM
Surr: BFB	94.9	84-116		%REC	1	10/30/2012 11:27:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/30/2012 11:27:34 PM
Toluene	ND	0.048		mg/Kg	1	10/30/2012 11:27:34 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/30/2012 11:27:34 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/30/2012 11:27:34 PM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	10/30/2012 11:27:34 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	1.5		mg/Kg	5	11/6/2012 9:45:48 AM
Chloride	ND	7.5		mg/Kg	5	11/6/2012 9:45:48 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/6/2012 9:45:48 AM
Bromide	ND	1.5		mg/Kg	5	11/6/2012 9:45:48 AM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	11/6/2012 9:45:48 AM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	11/6/2012 9:45:48 AM
Sulfate	4100	75		mg/Kg	50	11/6/2012 10:10:37 AM
EPA METHOD 7471: MERCURY						Analyst: JLF
Mercury	ND	0.033		mg/Kg	1	11/1/2012 4:25:45 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	2.9	2.5		mg/Kg	1	11/2/2012 6:42:15 PM
Barium	12	0.10		mg/Kg	1	11/2/2012 6:42:15 PM
Cadmium	ND	0.10		mg/Kg	1	11/2/2012 6:42:15 PM
Calcium	18000	120		mg/Kg	5	11/7/2012 3:06:35 PM
Chromium	1.9	0.30		mg/Kg	1	11/2/2012 6:42:15 PM
Lead	3.3	0.25		mg/Kg	1	11/9/2012 7:16:32 AM
Magnesium	770	25		mg/Kg	1	11/6/2012 1:18:45 PM
Potassium	390	50		mg/Kg	1	11/6/2012 1:18:45 PM
Selenium	ND	2.5		mg/Kg	1	11/2/2012 6:42:15 PM
Silver	ND	0.25		mg/Kg	1	11/14/2012 7:44:06 AM
Sodium	58	25		mg/Kg	1	11/6/2012 1:18:45 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58
21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID: MB-4627	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 4627	RunNo: 6661								
Prep Date: 11/1/2012	Analysis Date: 11/1/2012	SeqNo: 192293	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID: LCS-4627	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 4627	RunNo: 6661								
Prep Date: 11/1/2012	Analysis Date: 11/1/2012	SeqNo: 192294	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	93.1	90	110			
Chloride	14	1.5	15.00	0	94.0	90	110			
Nitrogen, Nitrite (As N)	2.7	0.30	3.000	0	91.5	90	110			
Bromide	7.2	0.30	7.500	0	95.5	90	110			
Nitrogen, Nitrate (As N)	7.4	0.30	7.500	0	98.7	90	110			
Sulfate	28	1.5	30.00	0	92.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-4558	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	4558	RunNo:	6531					
Prep Date:	10/29/2012	Analysis Date:	10/29/2012	SeqNo:	188701	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	12		10.00		117	77.6	140			

Sample ID	LCS-4558	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	4558	RunNo:	6531					
Prep Date:	10/29/2012	Analysis Date:	10/29/2012	SeqNo:	188731	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	52.6	130			
Surr: DNOP	4.7		5.000		94.0	77.6	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58
21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID: MB-4560	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 4560	RunNo: 6586								
Prep Date: 10/29/2012	Analysis Date: 10/30/2012	SeqNo: 190175	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	84	116			

Sample ID: LCS-4560	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 4560	RunNo: 6586								
Prep Date: 10/29/2012	Analysis Date: 10/30/2012	SeqNo: 190176	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.1	74	117			
Surr: BFB	990		1000		98.9	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-4560	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	4560	RunNo:	6586					
Prep Date:	10/29/2012	Analysis Date:	10/30/2012	SeqNo:	190194	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-4560	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	4560	RunNo:	6586					
Prep Date:	10/29/2012	Analysis Date:	10/30/2012	SeqNo:	190196	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	77	116			
Xylenes, Total	3.1	0.10	3.000	0	104	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-4629	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	4629	RunNo:	6634					
Prep Date:	11/1/2012	Analysis Date:	11/1/2012	SeqNo:	191517	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-4629	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	4629	RunNo:	6634					
Prep Date:	11/1/2012	Analysis Date:	11/1/2012	SeqNo:	191518	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-4583	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4583	RunNo:	6598					
Prep Date:	10/30/2012	Analysis Date:	10/31/2012	SeqNo:	190592	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.30								
Lead	ND	0.25								
Magnesium	ND	25								
Potassium	ND	50								
Selenium	ND	2.5								
Sodium	ND	25								

Sample ID	LCS-4583	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	4583	RunNo:	6598					
Prep Date:	10/30/2012	Analysis Date:	10/31/2012	SeqNo:	190593	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.5	25.00	0	102	80	120			
Barium	24	0.10	25.00	0	97.4	80	120			
Cadmium	25	0.10	25.00	0	98.8	80	120			
Calcium	2600	25	2500	9.548	102	80	120			
Chromium	25	0.30	25.00	0	98.7	80	120			
Lead	24	0.25	25.00	0	97.2	80	120			
Magnesium	2600	25	2500	0.7440	103	80	120			
Potassium	2500	50	2500	17.58	97.6	80	120			
Selenium	24	2.5	25.00	0	96.0	80	120			
Sodium	2500	25	2500	0	101	80	120			

Sample ID	MB-4745	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4745	RunNo:	6812					
Prep Date:	11/8/2012	Analysis Date:	11/9/2012	SeqNo:	197020	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	LCS-4745	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	4745	RunNo:	6812					
Prep Date:	11/8/2012	Analysis Date:	11/9/2012	SeqNo:	197021	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	92.6	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering
Project: Crouch Mesa Landfarm

Sample ID	MB-4745	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	4745	RunNo:	6879					
Prep Date:	11/8/2012	Analysis Date:	11/13/2012	SeqNo:	198947	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.25								

Sample ID	LCS-4745	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	4745	RunNo:	6879					
Prep Date:	11/8/2012	Analysis Date:	11/13/2012	SeqNo:	198948	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	5.6	0.25	5.000	0	112	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1210C58**
 Received by/date: AF 10/27/12
 Logged By: **Anne Thorne** 10/27/2012 2:00:00 PM *Anne Thorne*
 Completed By: **Anne Thorne** 10/29/2012 *Anne Thorne*
 Reviewed By: *[Signature]* 10/29/12

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

