NM2 - ____3___

MONITORING REPORTS YEAR(S):

____2012 ___

Star Star

BLAGG ENGINEERING, INC. P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OCD

7817 NOV 28 P 2:45

SENT VIA CERTIFIED MAIL 7011 1570 0002 2817 3407

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.*

Juffy C. Bigg

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 BPAmerica Production Company Crouch Mesa Waste Management Facility



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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 <u>www.hallenvironmental.com</u> 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,

India

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1204092 Date Reported: 4/9/2012

CLIENT: Blagg Engineering			Client Sample	ID: Cell 1	
Project: Crouch Mesa Landfarm			Collection D	ate: 3/28/2	012 2:20:00 PM
Lab ID: 1204092-001	Matrix:	SOIL	Received D	ate: 4/3/20	12 10:30:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		-		Analyst: JMP
Diesel Range Organics (DRO)	21	9.9	mg/Kg	1	4/5/2012 1:11:44 PM
Sur: DNOP	106	77.4-131	%REC	1	4/5/2012 1:11:44 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2012 7:45:03 FM
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	NÐ	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

 $S \qquad Spike Recovery \ outside \ accepted \ recovery \ limits$

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

Page 1 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

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Lab Order 1204092 Date Reported: 4/9/2012

CLIENT: Blagg Engineering		(Client Sample	e ID: Cell 2	
Project: Crouch Mesa Landfarm			Collection E	Date: 3/28/2	012 2:50:00 PM
Lab ID: 1204092-002	Matrix:	SOIL	Received D	ate: 4/3/20	12 10:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E 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 RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/5/2012 8:13:49 PM
Sun: 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.
 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

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S Spike Recovery outside accepted recovery limits

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

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Lab Order 1204092 Date Reported: 4/9/2012

CLIENT: Blagg Enginee	ering		Client Samp	le ID: Cell 5	
Project: Crouch Mesa I	Landfarm		Collection	Date: 3/28/2	012 3:30:00 PM
Lab ID: 1204092-003	Matrix:	SOIL	Received	Date: 4/3/20	12 10:30:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: D	IESEL RANGE ORGANICS				Analyst: JMP
Diesel Range Organics (Di	RO) 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: G	ASOLINE 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: V	OLATILES				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-Bromofluorobena	zene 90.5	80-120	%REC	1	4/5/2012 8:42:36 PM
EPA METHOD 300.0: AN	lions				Analyst: SRM
Chloride	2.5	1.5	mg/Kg	1	4/5/2012 9:56:24 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level. В E Value above quantitation range Н J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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

RL Reporting Detection Limit

147

WO#: 1204092

09-Apr-12

Hall Environmental Analysis Laboratory, Inc.

Client: Project	Blagg En Crouch N	igineering Aesa Land	farm								
									 		
Sample ID	MB-1374	Sampl	Type: M	BLK	Tes	tCode: El	PA Method	300.0: Anior	1S		
Client ID:	PBS	Batcl	h ID: 13	74	F	RunNo: 1	929 ·				
Prep Date:	4/4/2012	Analysis D	Date: 4	/5/2012	5	SegNo: 5	3717	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-1374	Samp1	ype: LC	s	Tes	tCode: El	PA Method	300.0: Anior	15		
Client ID:	LCSS	Batch	n ID: 13	74	F	RunNo: 1	929				
Prep Date:	4/4/2012	Analysis E	ate: 4	/5/2012	ş	SegNo: 5	3718	Units: mg/k	٢g		
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	SampT	ype: M	S	Tes	tCode: El	PA Method	300.0: Anior	8		
Client ID:	Cell 5	Batch	n ID: 13	74	F	RunNo: 1	929				
Prep Date:	4/4/2012	Analysis D	ate: 4	5/2012	S	BeqNo: 5	3724	Units: mg/k	(g ,		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Chloride		16	1.5	15.00	2.493	92.6	74.6	118			
Sample ID	1204092-003AMS1	D SampT	ype: M	SD	Tes	tCode: El	PA Method	300.0: Anior	15		
Client ID:	Cell 5	Batch	n ID: 13	74	F	lunNo: 1	929				
Prep Date:	4/4/2012	Analysis D	ate: 4	5/2012	5	SeqNo: 5	3725	Units: mg/h	(g		
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
- $R = RPD \ \text{outside accepted recovery limits}$

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:BProject:C	lagg Engineering rouch Mesa Landfar	m							
Sample ID MB-1369	SampTyp	e: MBLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Batch IE	D: 1369	F	RunNo: 1	889				
Prep Date: 4/4/2012	Analysis Date	e: 4/4/2012	ę	SeqNo: 5	2862	Units: mg/H	(g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) ND	10							
Surr: DNOP	8.2	10.00)	82.2	77.4	131			
Sample ID LCS-1369	SampTyp	e: LCS	Tes	tCode: El	PA Method	8015B: Dies	el Range (Drganics	
Client ID: LCSS	Batch IE): 1369	F	RunNo: 1	B89				
Prep Date: 4/4/2012	Analysis Date	e: 4/4/2012	SeqNo: 52877			Units: mg/H	(g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) 42	10 50.00	0	83,4	62.7	139			
Surr: DNOP	4.0	5.000	ł	79.7	77.4	131			

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- */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.

Client: Blagg I Project: Crouch	Engineering Mesa Land	farm		·····						
Sample ID MB-1361	Samp	Туре: 'Мі	BLK	Tes	stCode: E	PA Method	8015B: Gas	oline Rang	j 0	
Client ID: PBS	Bato	h ID: 13	61	RunNo: 1907						
Prep Date: 4/3/2012	Analysis [Date: 4	4/2012	SeqNo: 53409			Units: mg/l	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0						_	_	
Sun: BFB	980		1,000		97.8	69.7	121			
Sample ID LCS-1361	Samp	Type: LC	:s	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	je	
Client ID: LCSS	Batc	h ID: 13	61	F	RunNo: 1	907				
Prep Date: 4/3/2012	Analysis [Date: 4/	4/2012	SeqNo: 53410		Units: mg/k	(g			
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			
Sur: 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
 - Not Detected at the Reporting Limit
- RL Reporting Detection Limit

ND

	Hall	Envir	conmental	Anal	ysis .	Lab	orat	tory,	Inc.
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11 UTT -	1404074

09-Apr-12

Client: B Project: C	lagg Engineering rouch Mesa Landi	farm												
Sample ID MB-1361	SampT	ype: MI	BLK	Tes	tCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	n ID: 13	61	F	RunNo: 1	908								
Prep Date: 4/3/2012	Analysis D	ate: 4/	4/2012	SeqNo: 53510			Units: mg/k							
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-Bromofluorobenze	ne 0.95		1.000		95.3	80	120							
Sample ID LCS-1361	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batch	1D: 13	61	F	RunNo: 1	908	٠							
Prep Date: 4/3/2012	Analysis D	ate: 4/	4/2012	5	eqNo: 5	3511	Units: mg/h	(g						
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-Bromofluorobenzei	ne 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

Page 7 of 7

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HALL Hall ENVIRONMENTAL ANALYSIS LABORATORY TEL	l Environmental Analysis i 4901 H Albuquerque, L: 505-345-3975 FAX: 503 Vebsite: www.hallenvironn	aboratory awkins NE NM 87105 -345-410, sental.con	Sample Log-In Check List
Client Name: BLAGG	Work Orde	r Number:	1204092
Received by/date: Civi Civi	~ .	-m	in a c
Logged By: Michelle Garcia 4/3/2012	2 10:30:00 AM	·' ł	and frame
Completed By: Michelle Garcia 4/3/2012	! 11:27:04 AM /	m	itelle Gaussi
Reviewed By: 04/03	12		
Chain of Custody			
1. Were seals intact?	Yes [No □	Not Present 🗹
2. Is Chain of Custody complete?	Yes	Z No 🗆	Not Present
3. How was the sample delivered?	Greyho	und	
Log In			
4. Coolers are present? (see 19. for cooler specific Infor	mation) Yes	2 No 🗀	NA 🗔
5. Was an attempt made to cool the samples?	Yes	2 No 🗆	
6. Were all samples received at a temperature of $>0^{\circ}$ C	to 6.0°C Yes 6	2 No 🗆	NA 🗔
7. Sample(s) in proper container(s)?	Yes	2 No 🗆	
8. Sufficient sample volume for indicated test(s)?	Yes	No 🗆	
9. Are samples (except VOA and ONG) properly preserv	ved? Yes 🗹	🛛 No 🗔	
10, Was preservative added to bottles?	Yes 🗌] No 🗹	NA 🗆
11 VOA visis have zem heodenone?	Vec		
12 Were any sample containers received broken?	Yes		
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	No 🗌	# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	? Yes b	🛛 No 🗌	(<2 or >12 unless noted)
15, is it clear what analyses were requested?	Yes 🛛		Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🖢	<u>No</u>	Checked by:
Special Handling (if applicable)		1 m	
17. Was client notified of all discrepancies with this order?	? Yes		
Person Notified:	Date:		
By Whom:	Via: 🗌 eMali	C Phone	Fax In Person
Regarding:	· · · ·	<u></u>	<u></u>
	· · · · · ·		<u></u>
18. Additional remarks:			
19 Cooler Information			

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

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Client:	hain-	of-Cu	stody Record	Turn-Around	Time:					ł	łA		E	NV	/IR	20	NP	1E	NT	AL	, 4;
	BLAG	G ENGIN	GERNG INC.	X Standard	C Rush	<u> </u>				A	١N	AL	YS	519	5 L	AE	30	R/	١TC	DRI	
	BP P	MERICA	· · · · · · · · · · · · · · · · · · ·	Project Name							www	v.hal	llenv	ironi	ment	al.co	om				
Mailing	Address	P_0.	Box 87	CROUCH	MESA LA	WUFARM		49	01 H	lawki	ins N	1E -	Alb	uqu	erau	e. NI	M 87	109			
	BLOOM	FIELD.	NM 97413	Project #:			1	Τe	el. 50)5-34	45-3	975	F	- ax	505-	345-	4107	7			
Phone #	t: 50	5-63z	2-1199	- ·								A	naly	/sis	Req	uest					
email or	Fax#:			Project Mana	iger:			(yl	sel)) ₄)							T
QA/QC F	Package:	-		J. Bu	466		021	s or	Die		i			S,	ы S						
Stan	dard		Level 4 (Full Validation)				8) 8) 8)	(Ga	sas/					Q.	P P						
Accredit	tation AP	D Othe	r	Sampler: J On Ices	- BLAGE			+ TPH	15B (G	18.1)	04.1)	(HA)		0 ₃ ,NO ₂	/ 8082		A)				r N
	(Type)			Samplestern	nepations //			BE	d 80	4 4	od 5	or F	etals	N,	ides	(₽	Ş	ц			Ľ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + ₩≢	BTEX + MT	TPH Methoe	TPH (Metho	EDB (Metho	8310 (PNA	RCRA 8 Me	Anions (F,C	8081 Pestic	8260B (VO/	8270 (Semi-	CHLURI			Air Bubblés
28/12	1420	SOIL	CEU I	40=×1	COOL	-601	X		X									X			T
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Date:	time:		ea by:	Received by:	.).	Date Time	Rer	nark	s: (3RC	> →	DR	0 0	\sim	80	15 [B				•
712	0102	J.J.	(1 shegy	1/ mistre	Walter	12/12 0402	ĮŊ	150	300	>38	2										
Date:		- Chni	ottac la la cate		Al	AUTRIN INZ A	1 Co	1-5A WTA	с ј [ст \	JE	ř FF	Pea	Æ								

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June 08, 2012

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

RE: Crouch Mesa Landfarm

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

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 <u>www.hallenvironmental.com</u> 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 ITEAL for any additional information or clarifications.

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1206102

Date Reported: 6/8/2012

Hall Environmental Analysis Laboratory, Inc.

.

CLIENT:	Blagg Engineering		Client Sample ID: Cell 1
Project:	Crouch Mesa Landfarm		Collection Date: 5/31/2012 9:05:00 AM
Lab ID:	1206102-001	Matrix: SOIL	Received Date: 6/5/2012 9:50:00 AM
		- <u> </u>	

Analyses	Result	Result RL Qual Units		DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst JMP
Diesel Range Organics (DRO)	11	9.7	mg/Kg	1	6/7/2012 7:35:02 AM
SUIT: DNOP	114	82.1-121	%REC	1	6/7/2012 7:35:02 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/7/2012 4:33:41 PM
Sur: BFB	92.8	69.7-121	%REC	1	6/7/2012 4:33:41 PM
EPA METHOD 80218: VOLATILES					Analyst NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2012 4:33:41 PM
Toluene	ND	0.049	mg/Kg	1	6/7/2012 4:33:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2012 4:33:41 PM
Xylenes, Total	ND	0.098	mg/Kg	1	6/7/2012 4:33:41 PM
Sur: 4-Bromofluorobenzene	95.7	80-120	%REC	1	6/7/2012 4:33:41 PM
EPA METHOD 300.0: ANIONS					Analyst SRM
Chloride	ND	7.5	mg/Kg	5	6/6/2012 10:10:25 AM

Onalifiers:	
Anumers.	

- */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

Analytical Report Lab Order 1206102

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/8/2012
Client Sample ID: Cell 2

Project:Crouch Mesa LandfarmLab ID:1206102-002

CLIENT: Blagg Engineering

Collection Date: 5/31/2012 9:40:00 AM Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG					Analyst JMP	
Diesel Range Organics (DRO)	110	10		mg/Kg	1	6/8/2012 8:29:27 AM
Sum DNOP	123	82.1-121	S	%REC	1	6/8/2012 8:29:27 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2012 5:02:24 PM
Surr: BFB	92.6	69.7-121		%REC	1	6/7/2012 5:02:24 PM
EPA METHOD 8021B: VOLATILES						Analyst NSB
Benzene	ND	0.049		mg/Kg	1	6/7/2012 5:02:24 PM
Toluene	ND	0.049		mg/Kg	1	6/7/2012 5:02:24 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2012 5:02:24 PM
Xytenes, Total	ND	0.098		mg/Kg	1	6/7/2012 5:02:24 PM
Sur: 4-Bromofluorobenzene	96.7	80-120		%REC	1	6/7/2012 5:02:24 PM
EPA METHOD 300.0: ANIONS						Analyst SRM
Chloride	31	1.5		mg/Kg	1	6/6/2012 11:00:04 AM

Matrix: SOIL

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

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Analytical Report

Lab Order 1206102

Date Reported: 6/8/2012

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg EngineeringClient Sample ID: Cell 5Project: Crouch Mesa LandfarmCollection Date: 5/31/2012 10:10:00 AMLab ID: 1206102-003Matrix: SOILReceived Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL Qu	RL Qual Units		Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/7/2012 7:56:42 AM
Sur. DNOP	116	82.1-121	%REC	1	6/7/2012 7:56:42 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/7/2012 5:31:08 PM
Sur: BFB	91.8	69.7-121	%REC	1	6/7/2012 5:31:08 PM
EPA METHOD 8021B: VOLATILES		•			Analyst NSB
Benzene	ND	0.048	mg/Kg	1	6/7/2012 5:31:08 PM
Toluene	ND	0.048	mg/Kg	1	6/7/2012 5:31:08 PM
Ethylbenzene	ND	0.048	mg/Kg	1	6/7/2012 5:31:08 PM
Xylenes, Total	ND	0.095	mg/Kg	1	6/7/2012 5:31:08 PM
Surr: 4-Bromofluorobenzene	96.7	80-120	%REC	1	6/7/2012 5:31:08 PM
EPA METHOD 300.0: ANIONS					Analyst SRM
Chloride	ND	1.5	mg/Kg	1	6/6/2012 11:24:53 AM

Qualifiers: */X

- K 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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1206102

08-Jun-12

Client: Project:	B C	llagg Engineering Frouch Mesa Land	farm	,				_			
Sample ID Client ID:	MB-2259 PBS	IB-2259 SampType: MBLK 'BS Batch ID: 2259			TestCode: EPA Method 300.0: Anions RunNo: 3259						
Prep Date:	8/8/2012	! Analysis C	ate: 6	/6/2012	٤	SeqNo: 9	0444	Units: mg/H	(g		
Anatyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chiende		ND	1.5		_						
Sample ID	LCS-2258) SampT	ype: LC	:s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 22	59	F	RunNo: 3	1259				
Prep Date:	8/6/2012	Analysis D	ate: 6	6/2012	S	SeqNo: 9	0445	Units: mg/K	(g		
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.

- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

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

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Page 4 of 7

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Limit Berth on montant A mary 315 Labor ator y, the	Hall	Environmenta	l Analysi	s Labora	tory, Inc.
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WO#: 1206102

-08-Jun-12

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Client: Project:	Blagg E Crouch	Engineering Mesa Landfarm							_	
Sample ID	MB-2257	SampType: 1	MBLK	Tes	tCode: El	PA Method	8015B: Diese	el Range (Drganics	==
Client ID:	PBS	Batch ID:	2257	F	lunNo: 32	222				
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	5	eqNo: 8	9850	Units: mg/K	g		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND 1	10				,			
Sur: DNOP		11	10.00		110	82.1	121			
Sample ID	LCS-2257	SampType:	LCS	Tes	tCode: Ef	PA Method	8015B: Diese	el Range (Drganic s	
Client ID:	LCSS	Batch ID: 1	2257	F	tunNo: 32	222				
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	S	eqNo: 8	9851	Units: mg/K	Ø		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	53 Í	0 50.00	0	106	52.6	130			
Sutt: DNOP		4.9	5.000		98.9	82.1	121			
Sample ID	MB-2300	SampType: I	MBLK	Tes	Code: EF	PA Method	8015B: Diese	l Range (Drganics	
Client ID:	PBS	Batch ID:	2300	F	lunNo: 31	291				
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	ຮ	iegNo: 91	1877	Units: %RE	0		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: DNOP		13	10.00		126	77.6	140			
Sample ID	LCS-2300	SampType: I	LCS	Tes	Code: EF	PA Method	8015B: Diese	I Range C	Organics	
Client ID:	LCSS	Batch ID:	2300	F	unNo: 32	291				
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	S	ieqNo: 91	1992	Units: %RE	0		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: DNOP		5.3	5.000	<u>.</u>	106	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

- $B \quad \ \ Analyte detected in the associated Method Blank$
- 11 Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laborator

WO#: 1206102

08-Jun-12

Hall Env	vironmental Analysis Laboratory, Inc.	
Client:	Blagg Engineering	

Client:Blagg EngineeringProject:Crouch Mesa Landfarm

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Sample ID MB 2252	Samp	SampType: MBLK			TestCode: EPA Method 8015B: Gasoline Range						
Client ID: PBS	Bato	h ID: R	3296	F	RunNo: 3	296					
Prep Date:	Analysis i	Date: 6	/7/2012	5	SeqNo: 9	1759 ·	Units: %RE	C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surt: BFB	900	_	1000		90.4	69.7	121				
Sample ID LCS-2252	Samp	SampType: LCS TestCode: EPA Method 8					8015B: Gase	oline Rang	e		
Client ID: LCSS	Bato	ch iD: 22	52	· F	RunNo: 3	296					
Prep Date: 6/5/2012	Analysis I	Date: 6	17/2012	5	SeqNo: 9	1760	Units: mg/H	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	26	50	25.00	0	104	98.5	133				
Gasoline Range Organics (GRO)	20	0.0		-							

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, Inc.

Client: Blagg Engineering Project: Crouch Mesa Landfarm

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Sample ID MB 2252	Samp	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: R3	296	F	RunNo: 3	296				
Prep Date:	Analysis [Date: 6 /	7/2012	S	SeqNo: 9	1853	Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromotuorobenzene	0.95		1.000		95.4	80	120			_
Sample ID LCS-2252	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 22	52	F	tunNo: 3	296				
Prep Date: 6/5/2012	Analysis [Date: 6/	7/2012	S	eqNo: 9	1854	Units: mg/l	(g		
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.

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL**Reporting Detection Limit**

WO#: 08-Jun-12

1206102

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Hall Environmental Analysis Laboratory			
4901 Hawkins NE			
Albuquerque, NM 87105	Sample Log-In Check List		
TET . SAS 245 2078 EAV. SAS 245 410'			

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Client Name: BLAGG	Work Order Number: 1206102	
Received by/date: <u>LOTI Dia/05//2-</u>		
Logged By: Anne Thome 6/5/2012 9:50:00 AM	and the	
Completed By: Anne Thome 6/5/2012	an In-	
Reviewed By: A OLE 05 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	
.og in		
▲ 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		
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 🗌	
1, VOA visis nave zero neadspace r 12. Were any sample containers received broken?		<u> </u>
13. Does paperwork match bottle labels?	Yes V No H # of preserved	
(Note discrepancies on chain of custody)	for pH:	
14. Are matrices correctly identified on Chain of Custody?	Yes 2 No (<2 or >12 unless not	(be:
15. Is it clear what analyses were requested?		-
(If no, notify customer for authorization.)	Checked by:	
pecial Handling (if applicable)		<u> </u>
17. Was client notified of all discrepancies with this order?	Yes 🗍 No 🗍 🛛 NA 💆	
Bargon Notified		
By Whom:	e Mail C Phone E Fax in Person	
Regarding:		
	and the second	

19. Cooler Information

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HALL

ANALYSIS

ENVIRONMENTAL

 Cooler No	Temp ℃	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

С	hain	-of-Cu	ustody Record	Turn-Aroun	d Time:																	
Client:	BLAG	. ENGIN	EERING INC.	 ▼Standai	rd ⊡ Rush	1						TAI	LL. 81'	er Vs	IV. Ts	; [T 14		NF RO	72	ri i Atc	אר יפר	v
	ζρ Δι	AFRY A		Project Nar	ne:			1 🖢			-		hall	envir		ent:	alon	m			/1	•
Mailing	Address	POI		CROUCH	MESA LAN	SFARM			49	01 H	awki	ns N	E -	Albu	aue	raue	9. NA	л Л 87	109			
ŀ	3LOOM	FIELD.	NM 87413	Project #:					Τe	el. 50)5-34	5-39	75	Fa	ax 5	05-3	345-4	4107	7			
Phone #	#: S	05-63	52-1199										A	nalys	sis R	Requ	uest					
email or	Fax#:			Project Mar	nager:			<u> </u>	nly)	sel)					5							Τ
QA/QC F	Package: dard		□ Level 4 (Full Validation)	J-	BLACC			ŝ (802 [.]	(Gas o	as/Die			1		PO4,S	PCB's						
	tation AP	Othe	Br	Sampler:	T. BIALL				НЧТ	15B (G	8.1)	4	AH)		3, NO ₂ ,	/ 8082		7				
	(Type)			Santoleste	nerendere Vinz				Ш	8	d 41	4 2C	P D	tals	Z.	des	2	Š				
Date	Time	Matrix	Sample Request ID	Container Type and	Preservative ≭ Type			BTEX + M T	BTEX + MTI	TPH Method	TPH (Metho	EDB (Metho	8310 (PNA	RCRA 8 Me	Anions (F,C	8081 Pestici	8260B (VOA	8270 (Semi-	CHORIDE			
3/12	0905	Soil	Ceu 1	4ozx1	Cool		-00	X		X									x		+	1
ų	0940	ų	CEU 2	ų	ц		-002	X		x									×	[-	1
15	1010	P ⁴	CEU 5	I(K	-	-003	X		X									x		\top	+
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Date:	Time: 1335	Relinquish	ed by: I Blegg	Received by:	Allast.	Date 6/1/12	Time 1335	Ren Pk	narks Z	s: PEA	GRC	> + > +	DR	0 01	18	015	B	t	ł	I		
Date:	Time:	Relinquish	ed by:	Received by:	/ ///	Date	Time	0	/ 7 /łc	x :,	Jef	r≓ R	EAC	E		-						
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If nonseen, estimate submitted to Hall Environmental may be submisfranted toletter amountable isteriation	e This canoe as notice of this oneshility	m lenihare art in hateton wheels ari lliw etch hattentonulus vită	Sector
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 <u>www.hallenvironmental.com</u> 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,

andige

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	D: Cell #	1		
Project: Crouch Mesa Landfarm Qua	rterly		Collection D	ate: 7/30/2	012 9:05:00 AM		
Lab ID: 1207D23-001	Matrix:	SOIL	Received Date: 7/31/2012 9:55:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/1/2012 2:24:39 PM		
Sur: DNOP	96.8	77.6-140	%REC	1	8/1/2012 2:24:39 PM		
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2012 2:56:42 PM		
Sur: BFB	98.3	84-116	%REC	1	8/2/2012 2:56:42 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.050	mg/Kg	1	8/2/2012 12:03:11 AM		
Toluene	ND	0.050	mg/Kg	1	8/2/2012 12:03:11 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	8/2/2012 12:03:11 AM		
Xylenes, Total	ND	0.10	mg/Kg	1	8/2/2012 12:03:11 AM		
Sur: 4-Bromofluorobenzene	105	80-120	%REC	1	8/2/2012 12:03:11 AM		
EPA METHOD 300.0: ANIONS					Analyst: SRM		
Chloride	100	30	mg/Kg	20	8/2/2012 9:18:00 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

Page 1 of 6

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1207D23 Date Reported: 8/6/2012

CLIENT: Blagg Engineering			Client Sample	EID: Cell #2	2			
Project: Crouch Mesa Landfarm Quart	terly		Collection D	ate: 7/30/2	012 9:25:00 AM			
Lab ID: 1207D23-002	Matrix:	SOIL	Received Date: 7/31/2012 9:55:00 AM					
Analyses	Result	RL Qua	l 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			
Sur: DNOP	102	77.6-140	%REC	1	8/1/2012 2:46:48 PM			
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/2/2012 12:31:53 AM			
Sur: 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,

Е Value above quantitation range

Analyte detected below quantitation limits ł

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

в Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL **Reporting Detection Limit**

Samples with CalcVal < MDL U

Page 2 of 6

Analytical Report
Lab Order 1207D23

Date Reported: 8/6/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Cell #5 Collection Date: 7/30/2012 9:40:00 AM **Project:** Crouch Mesa Landfarm Quarterly Received Date: 7/31/2012 9:55:00 AM Lab ID: 1207D23-003 Matrix: SOIL **Date Analyzed** Analyses Result **RL** Qual Units DF Analyst: JMP EPA METHOD 8015B: DIESEL RANGE ORGANICS 8/2/2012 8:11:41 AM Diesel Range Organics (DRO) ND 9.8 ma/Ka 1

Dieser Mange Organics (DICO)	110	0.0	mana	•	
Sur: 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
Sur: 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.

- 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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207D23

06-Aug-12

Client: Blagg Engineering

; .'

Project: Crouc	h Mesa Land	farm Qa	uarterly							
Sample ID MB-3117	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Batc	h ID: 31	17	F	RunNo: 4	554				
Prep Date: 7/31/2012	Analysis E	Date: 8	/1/2012	\$	SeqNo: 1	27853	Units: mg/H	۶g		
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	Samp	Type: LC	:5	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batci	h ID: 31	17	F	RunNo: 4	554				
Prep Date: 7/31/2012	Analysis E)ate: 8 /	/1/2012	5	SeqNo: 1	27881	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Diesel Range Organics (DRO)	35	10	50.00	0	70.6	52.6	130			
Surt: DNOP	4.1		5.000		81.1	77.6	140			

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Η 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

24

5

Project:	Crouch		
Sample ID M	B-3118	SampType: MBLK	TestCo

Sample ID MB-3118	Sampl	iype: Mi	BLK	Tes	tCode: E	PA Method	8015B: Gasoline Kange			
Client ID: PBS	Batcl	h ID: 31	18	RunNo: 4574						
Prep Date: 7/31/2012	Analysis E	Date: 8/	/1/2012	8	SegNo: 1	29323	Units: mg/k	٢g		
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	SampT	ype: LC	:S	Tes	tCode: El	PA Method	8015B: Gasc	line Rang	e	
Sample ID LCS-3118 Client ID: LCSS	SampT Batch	ype: LC	:S 18	Tes F	tCode: El RunNo: 4	PA Method 574	8015B: Gasc	oline Rang	 0	
Sample ID LCS-3118 Client ID: LCSS Prep Date: 7/31/2012	SampT Batch Analysis D	⁻ ype: LC h ID: 31 Date: 8 /	:S 18 11/2012	Tes F	tCode: El RunNo: 4 SeqNo: 1	PA Method 574 29324	8015B: Gasc Units: mg/F	Jine Rang	 0	
Sample ID LCS-3118 Client ID: LCSS Prep Date: 7/31/2012 Analyte	SampT Batch Analysis D Result	7ype: LC n ID: 31 Date: 8/ PQL	25 18 11/2012 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 574 29324 LowLimit	8015B: Gasc Units: mg/F HighLimit	viine Rang (g %RPD	e RPDLimit	Qual
Sample ID LCS-3118 Client ID: LCSS Prep Date: 7/31/2012 Analyte Gasoline Range Organics (GRO)	SampT Batch Analysis D Result 23	Type: LC n ID: 31 Date: 8/ PQL 5.0	S 18 1/2012 SPK value 25.00	Tes F S SPK Ref Val 0	tCode: El RunNo: 4 SeqNo: 1 %REC 93.6	PA Method 574 29324 LowLimit 85	8015B: Gasc Units: mg/F HighLimit 115	viine Rang (g %RPD	e RPDLimit	Qual

- */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

Hali	Environmenta	l Ana	lysis	La	bora	tory,	Inc.
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WO#: 1207D23

06-Aug-12

Client: Blagg Engineering

Project: Crouch Mesa La	ndfarm Quarterly
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Sample ID MB-3118	Samp	Type: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	th ID: 31	18	F	RunNo: 4	574				
Prep Date: 7/31/2012	Analysis I	Date: 8/	1/2012	5	SeqNo: 1	29348	Units: mg/ł	(g		
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								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000	_	102	80	120			
Sample ID LCS-3118	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 31	18	F	RunNo: 4	574				
Prep Date: 7/31/2012	Analysis [Date: 8/	1/2012	S	SeqNo: 1	29349	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Benzene	0.96	0.050	1.000	0	95.7	76.3	117			
Foluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	77	116			
(ylenes, Total	3.0	0.10	3.000	0	99.4	76.7	117			
			4 0 0 0				400			

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 Hall Environmental ENVIRONMENTAL Alba ANALYSIS TEL: 505-345-3975 LABORATORY Website: www.ha	Analysis Laboratory 4901 Hawkins NE uquerque, NM 87105 FAX: 505-345-410; Illenvironmental.con
Cilent Name: BLAGG	Vork Order Number: 1207D23
Received by/date: 45 07/3/12	
Logged By: Lindsay Mangin 7/31/2012 9:55:00 AM	0-4-Mago
Completed By: Lindsay Mangin 7/31/2012 10:54:05 AM	1
Reviewed By: MA Charles 07/21/12	
Chain of Custody	
1. vvere seals intact?	
2. Is Chain of Custody complete ?	
3. How was the sample delivered?	
Log In	
4. Coolers are present? (see 19. for cooler specific information)	
5. Was an attempt made to cool the samples?	
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)?	
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?	
12. Were any sample containers received broken?	Yes V No V H for preserved
(Note discrepancies on chain of custody)	bottles checked
14. Are matrices correctly identified on Chain of Custody?	Yes V No (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
16. Were all holding times able to be met?	Yes 🗹 No 🗆
(if no, notify customer for authorization.)	Checked by:
Special Handling (if applicable)	
17, Was client notified of all discrepancies with this order?	Yes LINO LI NA 122
Person Notified: Date:	
By Whom: Via: [eMaii 🔲 Phone 🔲 Fax 🛄 In Person
Regarding:	
Client Instructions:	
18. Additional remarks:	
19. <u>Gooler Information</u> Cooler No 1 Tamp °C 1 Condition Seet Intert 1 Seet No 1	Seal Date Signed By
1 2.9 Good Yes	

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 <u>www.hallenvironmental.com</u> 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,

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

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Lab Order 1210C58 Date Reported: 11/21/2012

CLIENT: Blagg Engineering			Client Sample	ID: Cell 1	
Project: Crouch Mesa Landfarm			Collection D	ate: 10/22/	2012 2:45:00 PM
Lab ID: 1210C58-001	Matrix:	SOIL	Received D	ate: 10/27/	2012 2:00:00 PM
Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/30/2012 8:28:34 AM
Sur: DNOP	97.9	77.6-140	%REC	1	10/30/2012 8:28:34 AM
EPA METHOD 8015B: GASOLINE RA	NGE				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:	
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- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Spike Recovery outside accepted recovery limits S

Hall Environmental Analysis Laboratory, Inc.

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Analytical Report Lab Order 1210C58 Date Reported: 11/21/2012

CLIENT: Blagg Engineering			Client Sample	ID: Cell 2	
Project: Crouch Mesa Landfarm			Collection D	ate: 10/22/	2012 2:30:00 PM
Lab ID: 1210C58-002	Matrix:	SOIL	Received D	ate: 10/27/	2012 2:00:00 PM
Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG					Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/30/2012 9:33:53 AM
Sum: DNOP	98.7	77.6-140	%REC	1	10/30/2012 9:33:53 AM
EPA METHOD 8015B: GASOLINE RAI	NGE				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	ma/Ka	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

Qualifiers: * Value exceeds Ma	ximum Contaminant Level.
--------------------------------	--------------------------

ND

ND

0.50

120

mg/Kg

mg/Kg

- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH greater than 2

Silver

Sodium

Reporting Detection Limit RL

В Analyte detected in the associated Method Blank

2

5

11/13/2012 5:42:21 AM

11/6/2012 1:14:26 PM

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

Analytical Report Lab Order 1210C58 Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

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CLIENT:	Blagg Engineering			С	lient Sample	e ID: Cell 5	
Project:	Crouch Mesa Landfarm				Collection E	Date: 10/22/2	2012 3:00:00 PM
Lab ID:	1210C58-003	Matrix:	SOIL		Received D	ate: 10/27/2	2012 2:00:00 PM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	HOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Ra	ange 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	E .				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/30/2012 11:27:34 PM
Sur: 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.	
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- Е Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

Sample ID MB-4627	Samp	Type: Mi	BLK	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID: PBS	Batc	h ID: 46	27	F	RunNo: 6	661				
Prep Date: 11/1/2012	Analysis (Date: 1	1/1/2012	S	SeqNo: 1	92293	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30				•				
Chioride	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	SampT	ype: LC	:S	Tes	tCode: El	PA Method	300.0: Anior	8		
Client ID: LCSS	Batch	h ID: 46	27	F	tunNo: 6	661				
Prep Date: 11/1/2012	Analysis D	Date: 1	1/1/2012	5	eqNo: 1	92294	Units: mg/k	(g		
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			
0 // 1	00	4 5	20.00	0	00.7	00	440			

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Project: Crouch	Engineering h Mesa Landf	arm								
Sample ID MB-4558	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015B: Dies	- el Range (Organics	
Client ID: PBS	Batch	ID: 45	58	F	RunNo: 6	531				
Prep Date: 10/29/2012	Analysis D	ate: 10	0/29/2012	5	SegNo: 1	88701	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Sur: DNOP	12		10.00		117	77.6	140			
Sample ID LCS-4558	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	
Client ID: LCSS	Batch	ID: 45	58	F	RunNo: 6	531				
Prep Date: 10/29/2012	Analysis Di	ate: 10	0/29/2012	S	SeqNo: 1	88731	Units: mg/K	g		
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			

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- P Sample pH greater than 2

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- R RPD outside accepted recovery limits

Client: Project:	Blagg E Crouch	Engineering Mesa Landi	farm									
Sample ID MB-	4560	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	je		-
Client ID: PBS Prep Date: 10/	29/2012	Batch Analysis D	n ID: 45 Date: 1 (60 D/30/2012	F	RunNo: 6 SeqNo: 1	586 90175	Units: mg/l	۲g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga Surr: BFB	anics (GRO)	ND 950	5.0	1000		94.8	84	116				
Sample ID LCS	-4560	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	je		
Client ID: LCS	S	Batch	n ID: 45	60	F	RunNo: 6	586					
Prep Date: 10/	29/2012	Analysis D	ate: 10)/30/2012	5	SeqNo: 1	90176	Units: mg/l	۲g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga	anics (GRO)	24	5.0	25.00	0	97.1	74	117				
Surr: BFB		990		1000		98.9	84	116				

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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WO#: 1210C58

21-Nov-12

Client: Blagg Project: Crouch	Engineering 1 Mesa Land	farm									
Sample ID MB-4560	Samp	Type: MI	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batc	h ID: 45	60	RunNo: 6586							
Prep Date: 10/29/2012	Analysis (Date: 10	0/30/2012	5	SeqNo: 1	90194	Units: mg/i	۲g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050								-	
Foluene	ND	0.050									
Ethylbenzene	ND	0.050									
(ytenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120				
Sample ID LCS-4560	Samp	Type: LC		Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Batc	h ID: 45	60	F	RunNo: 6	586					
Prep Date: 10/29/2012	Analysis [Date: 10	0/30/2012	5	SeqNo: 1	90196	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
lenzene	1.0	0.050	1.000	0	102	76.3	117				
oluene	1.0	0.050	1.000	0	103	80	120				
thylbenzene	1.0	0.050	1.000	0	104	77	116				
vienes, Total	3.1	0.10	3.000	0	104	76.7	117				
Sur: 4-Bromofiliorobenzene	1.1		1 000		108	80	120				

- * Value exceeds Maximum Contaminant Level.
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Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C58

21-Nov-12

Client: Blagg Engineering

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

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- P Sample pH greater than 2

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory,	Inc.
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Client:Blagg EngineeringProject:Crouch Mesa Landfarm

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Sample ID	MB-4583	Samp	SampType: MBLK TestCode: EPA Metho					1 6010B: Soil Metals							
Client ID:	PBS	Batc	h ID: 45	83	F	RunNo: 6	598								
Prep Date:	10/30/2012	Analysis [Date: 1	0/31/2012	8	SeqNo: 1	90592	Units: mg/H	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Arsenic		ND	2.5												
Barlum		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		<u> </u>	_									
Sample ID	LCS-4583	Samp1	SampType: LCS TestCode: EPA Method 6010B: Soil Metals												
Client ID:	LCSS	Batcl	h ID: 45	83	F	RunNo: 6598									
Prep Date:	10/30/2012	Analysis E	Date: 1	0/31/2012	5	SeqNo: 1	90593	Units: mg/M	(g						
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							
Magneslum		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	SampT	ype: Mi	BLK	Tes	tCode: El	PA Method	6010B: Soil I	Vietals						
Client ID:	PB\$	Batch	h ID: 47	45	R	RunNo: 6	812								
Prep Date:	11/8/2012	Analysis C	Date: 1	1/9/2012	S	eqNo: 1	97020	Units: mg/K	9						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Lead		ND	0.25							<u></u>					
Sample ID	LCS-4745	SampT	ype: LC	s	Test	Code: El	PA Method	6010B: Soil I	Vietals						
Client ID:	LCSS	Batch	n ID: 47	45	R	tunNo: 6	812								
Prep Date:	11/8/2012	Analysis D	ate: 1	1/9/2012	s	eqNo: 1	97021	Units: mg/K	g						
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

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21-Nov-12

1210C58

WO#:

Hal	l Env	ironmental	Analysis	Laboratory	y, Inc.
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WO#: 1210C58

21-Nov-12

Client: Project:	Blagg Crouch	Engineering 1 Mesa Landf	àrm										
Sample ID ME Client ID: PB Prep Date: 11	3-4745 IS 1/8/2012	SampT Batch Analysis D	ype: Mi ID: 47 ate: 1	BLK 45 1/13/2012	Tes F S	tCode: EF RunNo: 61 SeqNo: 11	PA Method 879 98947	Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
			0.25	'.		-							
Sample ID LC	S-4745	SampT	ype: LC	s	Tes	tCode: Ef	PA Method	6010B: Soil	Metals				
Client ID: LC	SS	Batch	ID: 47	45	F	lunNo: 68	379						
Prep Date: 11	1/8/2012	Analysis D	ate: 1	1/13/2012	. 9	ieqNo: 19	98948	Units: mg/M	(g				
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					

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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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- R RPD outside accepted recovery limits

HALL Hall Environmental Analysis Laboratory 4901 Hawkins NE ANALYSIS LABORATORY TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number

Sample Log-In Check List

Clie	ent Name:	BLAGG			Work Or	der I	Numi	ber:	1210)C58	
Re	ceived by/da	te:	10/27/12	2							
Log	ged By:	Anne Thom	e	10/27/2012 2:00:	00 PM			An	A	-	
Co	mpleted By:	Anne Thom	i 0 ,	10/29/2012				Л	A		
Rev	viewed By:	3	ζ	10/09/1)_			Gan	4	-	
Cha	ain of Cus	stody	<u> </u>	<u></u>							
1.	Were seals	intact?			Yes		No		N	ot Present 🗹	
2.	Is Chain of	Custody compl	ete?		Yes	V	No		N	ot Present 🗌	
3.	How was th	ne sample deliv	ered?		Cou	ier					
Loc	ı in										
	Coolers are	nresent? (see	19 for cooler spi	elfic information)	Vae		No				
4.	0001018 812	, prosenti (800			1.29	ι.			·		
5.	Was an att	empt made to c	col the samples?	•	Yes	¥	No				
~	More ell ec	males maskind			. Yee		No				
6.	AAGIG BII 29	mples received	al a temperature		/ T C S	. .					
7.	Samp le (s) i	in proper contai	ner(s)?		Yes	V	No				
8.	Sufficient si	ample volume f	or indicated test(s)?	Yes		No				
9.	Are sample	s (except VOA	and ONG) prope	ny preserved?	Yes		No				
10.	Was preser	vative added to	bottles?		Yes		No	\checkmark		na 🗂	
11	VOA viels h	nave zero head	3Daca?	۰،	Yes		No		No	VOA Vials 🗹	
12	Were any s	ample containe	rs received broke	9n?	Yes		No				
13.	Does paper	work match bo	ttle labels?		Yes	Z	No			# of preserved	
	(Note discre	epancies on chi	ain of custody)					_		for pH:	
14.	Are matrice	s correctly iden	tified on Chain of	Custody?	Yes		No			(<)	2 or >12 unless noted)
15.	ls it clear w	hat analyses w	ere requested?		Yes	¥	No			Adjusted?	
16.	Were all ho (If no. notify	lding times able customer for a	to be met?		Yes	Y	No			Checked by	•
Spe	cial Hand	iling (if appl	licable)								· <u></u>
17.	Was client i	notified of all di	screpancies with	this order?	Yes		No			NA 🗹	
	Persos	n Notified:	<u> </u>	D	ate						
	By Wh	iom:		v	ia: 🗌 eMa] Pł	none		Fax 🗍 In Person	
•	Regar	ding:						**			
	Client	Instructions:				-					
19	Additional re	emarks:									 J
10.											
19	Cooler Info	rmation									• .

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

С	hain	-of-Cu	stody Record	Tum-Around	Time:	<u> </u>	.		1 1	j,	1 4 1			11	TE	0	r la		nj t	' A I	
Client:	BLAG	6 Er	GINEERING INC.	Standard	🗆 Rush					A		AL'	YS	IS	5 L	AE	30	R/	ATC		Y.
-	<u>BP F</u>	f.Men	109): ΜπτεΔ /	ANDACH					www	.hall	envir	ronr	nent	al.co	m				ه
Mailing	Address	P.0	. Bax 87	CRUJH				49	01 H	lawki	ns N	E -	Albu	ique	erqu	e, NI	M 87	109			`
2	Scam	FIELD	NM 87413	Project #:			Tel. 505-345-3975 Fax 505-345-4107											1.5			
Phone #	<u>#:</u>	505-	632-1179					((1			- Ai	nalys	sis	Req	uest			le p		
email or	r Fax#:			Project Mana	ger:		£	only	ese					ૢૺૼ	്ന						
QA/QC F	Package: dard		□ Level 4 (Full Validation)	J.	BASG		(80)	Gas	iS/Di					្តី	PCB						
Accredi	tation			Sampler "J	- BLAGE	•	l in the second	H	Ğ					ő	8			70			
	AP	🗆 Othe	r		ALKES AND		I II	 	15B	18,1	64.1	F		ž ຕໍ່	s / BC		Æ	201			N N
	(Type)			SempleyPen	ierennieko-ske		出	Ш	d 80	<u>д</u>	л В П	Ӹ	ala	ž	ide	F	ş	Š			Σ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		3TEX + 141	3TEX + MT	TPH Metho	TPH (Metho	EDB (Metho	3310 (PNA	SCRA 8 Me	Anions (F,C	3081 Pestic	3260B (VO)	8270 (Semi	CAY TON			Vir Bubbles
ta/12	1445	SOIL	CELL 1	3×403	Car	-1701	X		X				×				Ű	λ			\uparrow
u	1430	£(cru 2	4	H	-602-	X		X				хĪ					X			Ţ
(1	1500	11	CELL 5	ĸ	U	-03	×		X			1	x					X			<u> </u>
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Date!	Time:	Relinquish	ed by: // R.c	Received by:	. <u>.</u> .	Date Time	Rei	nark	s: 6	RO	∀	Deo	- L 0,	N 1	9019	FB		L !		L	
Date:	Time:	Refinquisit	ed by: 7	Received by:	allate	Date Time	Bi	u	ЪР	* *	WÜ Pk): / ::::	N1: Z P	50 Ea	00. CT	3 <i>8</i> ЪБЛ	JV				
10/24/2	1648_	Show	try Wales	And	R	(0/27/12 2:10				Сом	tAc'i		Jæ	Ŧ	= 1	Per/	ice	-			

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

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