OIL CONS. DIV DIST. 3

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

MAR 1 5 2016

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA'	IUK			ial Report	\boxtimes	Final	Kepor
Name of C	ompany: I	3P				Contact: Ste	eve Moskal						
Address: 20	00 Energy	Court, Farm	ington, N	M 87401		Telephone l	No.: 505-326-9	497	-15.15	Mary Harry			
Facility Na	me: Mans	field 001M				Facility Typ	e: Natural gas	well					
Surface Ov	vner: Fede	ral		Mineral C	Owner:	Federal			API No	o. 30045320	551		
Durrue O	mer. r cuc								122 2 1 1	0,000,000			
		I am	1-			N OF RE		l n					
Unit Letter	Section	Township	Range 9W	Feet from the		South Line	Feet from the 1,740	1000	West Line	County: S	an Juai	1	
G	19	30N	9W	1,345	North		1,740	East					
		Latit	ude 36.	.8009 °		Longitude	-107.81836						
				NAT	TURE	OF REL	EASE						
Type of Rele	ease: conde	nsate/oil and p	produced v		CILL		Release: Approx	ζ.	Volume	Recovered: A	Approx	. 20 bb	1
							lensate/40 bbl pr						
Source of Re	elease: Con	rosion of produ	uction tank	sidewall.			Hour of Occurren	ce:	Date and	Hour of Dis	covery	: 2/4/20)16
Was Immedi	iate Notice	Given?			Luin	If YES, To	Whom?						
			Yes [No Not Re	equired	A phone ca	all to Cory Smith						
By Whom?	Steve Mos	kal of BP		119		Date and H	Hour: 2/4/2016 a	9:40 A	M				
Was a Water	course Rea		1 v 5	7		If YES, Vo	olume Impacting	the Wat	ercourse.				
			Yes 🗵	No		Links							
If a Waterco	urse was In	npacted, Descr	ribe Fully.	*									
				n Taken. A smai	Il pin ho	le was found	on the sidewall o	f the pro	duction tar	nk. The relea	ise was	captur	ed
Describe Are landfarm trea	ea Affected atment. Clo	and Cleanup A ean fill dirt wa	Action Tales imported site. Final	ed soils were exca ken.* The freestan I for use as backfi closure samples v	nding liq	uid was remo	oved. Impacted s	oil was e	excavated a	and transport	ed off	k of like	,978
Describe Ard landfarm tree cubic yards of analysis. A	ea Affected atment. Clo of soil remo	and Cleanup A ean fill dirt wa eved from the s and laboratory	Action Tal s imported site. Final y reports a	ken.* The freestand for use as backficlosure samples were attached.	nding liq	uid was remo final excavati lected under t	om the site. The oved. Impacted s on measure appr the observation o	oil was e oximatel f the NN	excavated a by 55' x 40' MOCD and	and transporte ' x 27' deep submitted to	ed off swit a to	site for otal of 1 ratory f	,978 For
Describe Are landfarm tree cubic yards of analysis. A landfarm tree cubic yards of analysis. A landfarm tree gulations a public health should their or the enviro	ea Affected atment. Clo of soil remo- field report ify that the all operators or the env operations onment. In	and Cleanup and fill dirt was oved from the sand laboratory information g is are required to ironment. The have failed to	Action Tales imported site. Finally reports a liven above to report are acceptance adequately OCD acceptance.	ken.* The freestand for use as backfit closure samples were attached. e is true and compand/or file certain rece of a C-141 report investigate and restance of a C-141	anding liquil. The face columns are column	uid was remo final excavati lected under the he best of my otifications are e NMOCD me e contaminati	om the site. The oved. Impacted son measure apprehe observation of knowledge and and perform correlarked as "Final Foot that pose a three the operator of	oil was e eximatel f the NM understa- ctive act Report" of reat to gr	excavated a y 55' x 40' MOCD and and that pur- ions for rel loes not rel round wate ibility for c	and transporter and transporte	ed off swit a to a labo OCD rumay erator of ter, hu	site for stal of 1 ratory f	,978 for
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BP America Mansfield 1M

(G) Sec 19 – T30N – R9W San Juan County, New Mexico API: 30-045-32651

Summary Record of Impact Remediation

<u>February 4, 2016</u> Discovery of the loss of approximately 45 barrels condensate and 40 barrels produced water through a small pin hole in the side of the production tank. All fluids contained within the tank berm. Recovered approximately 20 barrels.

Site NMOCD/BLM closure standard determined at 100 ppm TPH based on:

Horizontal Distance to Dry Wash < 1,000 feet (10 points) Nearest Water Well > 1,000 feet (0 points) Depth to Groundwater < 100 feet (10 points)

<u>February 29, 2016</u> Begin site remediation via excavation with trackhoe. Collect soil samples within impact area and outside impact area for determination of extent of impacts. Excavation plan developed to dig 'engineered design' to include sloped/terraced sidewalls to eliminate risk of caving during remediation.

March 4, 2016 Excavation size approximately 40' x 40' x 27' deep. Sample north, south and east sidewalls and east base for closure. Witnessed by NMOCD.

March 5, 2016 Receive rush lab results. All passed.

March 8, 2016 Extend excavation towards west, final size approximately 55' x 40' x 27' deep. Sample extended west sidewall and west base for closure. Witnessed by NMOCD.

March 9, 2016 Receive rush lab results. All passed

Sample ID	Date/Time	Field OVM	TPH 8015B (DRO+GRO)	BTEX 8021	Chloride	Comments
TH-2 @ 30' (@BGT location)	2/29/2016 @ 15:10	120 ppm	ND	0.12 mg/Kg	38 mg/Kg	Passed
East Base 3-pt @ 27'	3/4/2016 @ 14:11	330 ppm	ND	0.337 mg/Kg	ND	Passed
North Wall 3-pt (12'-25')	3/4/2016 @ 14:30	52 ppm	ND	ND	37 mg/Kg	Passed
East Wall 3-pt (12'-25')	3/4/2016 @ 15:23	16.3 ppm	ND	ND	ND	Passed
South Wall 3-pt (10'-25')	3/4/2016 @ 14:44	24.3 ppm	ND	ND	ND	Passed
West Base 3-pt @ 27'	3/8/2016 @ 12:29	4.4 ppm	ND	ND	41 mg/Kg	Passed

West Wall Extension 6-pt (12'-25')	3/8/2016 @ 12:35	1.8 ppm	ND	ND	32 mg/Kg	Passed
NMOCD/BLM	Closure Standard:	NA	100 mg/Kg	50 mg/Kg	1,000 mg/Kg	

<u>March 14, 2016</u> Complete backfilling operations. Total volume transported to JFJ Crouch Mesa Landfarm = 1,978 cubic yards (Form C-138 Attached).





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

March 02, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

RE: Mansfield 1M OrderNo.: 1603003

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/1/2016 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1603003

Date Reported: 3/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH-2@30'

Project: Mansfield 1M

Collection Date: 2/29/2016 3:10:00 PM

Lab ID: 1603003-001

Matrix: MEOH (SOIL) Received Date: 3/1/2016 7:25:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	1117-51		RE .		Analyst	LGT
Chloride	36	30	mg/Kg	20	3/1/2016 11:55:35 AM	24017
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2016 10:50:03 AM	24001
Surr: DNOP	90.5	70-130	%Rec	1	3/1/2016 10:50:03 AM	24001
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	3/1/2016 10:25:04 AM	23986
Surr: BFB	95.7	66.2-112	%Rec	1	3/1/2016 10:25:04 AM	23986
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.029	mg/Kg	1	3/1/2016 10:25:04 AM	23986
Toluene	0.058	0.029	mg/Kg	1	3/1/2016 10:25:04 AM	23986
Ethylbenzene	ND	0.029	mg/Kg	1	3/1/2016 10:25:04 AM	23986
Xylenes, Total	0.062	0.059	mg/Kg	1	3/1/2016 10:25:04 AM	23986
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	3/1/2016 10:25:04 AM	23986

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603003 02-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24017 SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 24017

PQL

RunNo: 32490

Prep Date: 3/1/2016 Analysis Date: 3/1/2016

SeqNo: 994361

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Result

HighLimit

RPDLimit

Qual

Analyte Chloride

ND

Sample ID LCS-24017

3/1/2016

SampType: LCS

TestCode: EPA Method 300.0: Anions

%RPD

%RPD

Client ID:

LCSS

Batch ID: 24017

RunNo: 32490

Analysis Date: 3/1/2016

SegNo: 994362

Units: mg/Kg

HighLimit

Qual

Analyte Chloride

Prep Date:

14

15.00

SPK value SPK Ref Val %REC

96.5

RPDLimit

Page 2 of 5

PQL 1.5

LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample container temperature is out of limit as specified

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

% Recovery outside of range due to dilution or matrix

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603003 02-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID LCS-24001 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 24001 RunNo: 32481 Prep Date: 3/1/2016 Analysis Date: 3/1/2016 SeqNo: 993593 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Diesel Range Organics (DRO) 10 0 53 50.00 106 65.8 136 Surr: DNOP 5.000 4.5 90.6 70 130

Sample ID MB-24001	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 24	001	F	RunNo: 3	2481				
Prep Date: 3/1/2016	Analysis D)ate: 3/	1/2016	S	SeqNo: 9	93594	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		1					1000	
Surr: DNOP	11		10.00		109	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603003

02-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID LCS-23986	CampT	ype: LC	c	Tos	Codo: El	DA Mathad	8015D: Gaso	line Pana	•	
Surr: BFB	800		1000		80.2	66.2	112			
Gasoline Range Organics (GRO)	ND	5.0								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 2/29/2016	Analysis D	ate: 3/	1/2016	S	SeqNo: 9	93887	Units: mg/K	g		
Client ID: PBS	Batch	ID: 23	986	F	RunNo: 3	2486				
Sample ID MB-23986	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	

Client ID: LCSS	Batch	ID: 23	986	F	RunNo: 3	2486				
Prep Date: 2/29/2016	Analysis D	ate: 3/	1/2016		SeqNo: 9	93888	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120		1-1-1-1	
Surr: BFB	1000		1000		105	66.2	112			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603003

02-Mar-16

Client: Project:

Analyte

Blagg Engineering

Mansfield 1M

Sample ID MB-23986

Client ID:

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

PBS

Batch ID: 23986

PQL

0.050

RunNo: 32486

Prep Date: 2/29/2016

Analysis Date: 3/1/2016 Result

ND

0.99

SeqNo: 993921

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Benzene Toluene Ethylbenzene Xylenes, Total

ND 0.050 0.050 ND ND 0.10

1.000

99.3

120

Sample ID LCS-23986 Client ID: LCSS

Surr: 4-Bromofluorobenzene

Batch ID: 23986

SampType: LCS

RunNo: 32486

TestCode: EPA Method 8021B: Volatiles

Unite: malka

Prep Date: 2/29/2016 Ana

Analysis Date: 3/1/2016

Seallo: 003022

ricp bate. Zizsizoio	Allalysis L	Jaic. Of	1/2010		ocqivo. 3	JJJLL	Office. High	19			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.050	1.000	0	92.6	80	120				
Toluene	1.0	0.050	1.000	0	102	80	120				
Ethylbenzene	1.0	0.050	1.000	0	104	80	120				
Xylenes, Total	3.1	0.10	3.000	0	104	80	120				
Surr: 4-Bromofluorobenzene	1.3		1.000		126	80	120			S	

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 5 of 5



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

Client Name: BLAGG	Work Order Number:	160300	03			RcptNo: 1	
Received by/date	03/01/16						
Logged By: Lindsay Mangin	3/1/2016 7:25:00 AM			JUH	100		
Completed By: Lindsay Mangin	3/1/2016 8;42:21 AM			AUA			
Reviewed By:				00	0		
Chain of Custody	BOILLA						
1. Custody seals intact on sample bottles?		Yes		No		Not Present	
2. Is Chain of Custody complete?		Yes	~	No		Not Present	
How was the sample delivered?		Courie	H				
Log In							
Was an attempt made to cool the sample	s?	Yes	V	No		NA 🗆	
		The state of					
5. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes [/	No [NA 🗆	
6. Sample(s) in proper container(s)?		Yes	V	No			
7. Sufficient sample volume for indicated tes	st(s)?	Yes	~	No			
8. Are samples (except VOA and ONG) prop	cerly preserved?	Yes	~	No [
9. Was preservative added to bottles?		Yes		No	V	NA 🗆	
0.VOA vials have zero headspace?		Yes		No [No VOA Vials	
11. Were any sample containers received bro	oken?	Yes		No	V	# of preserved	
					_	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	~	No		for pH: (<2 or >12 unles	s noted
3. Are matrices correctly identified on Chain	of Custody?	Yes	~	No		Adjusted?	
4. Is it clear what analyses were requested?	TO PAY THE STATE OF	Yes		No			
15. Were all holding times able to be met?		Yes	V	No I		Checked by:	
(If no, notify customer for authorization.)							
pecial Handling (if applicable)	and a second	anno I				NA 🗹	
16, Was client notified of all discrepancies wi	th this order?	Yes	7	No		NA M	
Person Notified:	Date	45 145	705	SERVICE PARTY		200	
By Whom:	Via: [eMai		Phone	Fax	☐ In Person	
Regarding:			1	A CONTRACTOR OF THE PARTY OF TH			
Client Instructions:							
17. Additional remarks:							
18. Cooler Information							
Cooler No Temp °C Condition	Seal Intact Seal No \$	Seal Dat	in. 1	Signed B	-		

			stody Record	Turn-Around		ASAP					ь	IA	LL	EI	VV	TE	20	N	1E	NT	AL	
lient:	BPA	MERIC	A	□ Standard		ASAP SAME	DAY			5										TO		-
	_		WEERING	Project Name					-			www	v.hal	lenv	ironr	ment	al.co	m				
ailing	Address			MAN	ISFIELD S	IM			49	01 H	awki	ins N	IE -	Alb	uque	erque	e. NI	M 87	109			
				Project #:						el. 50								4107				
hone	#: 50	5-32	0-1183								4 10	100	-	-		Req	_	-	- 4			
nail o	r Fax#:			Project Mana	ager:				(ylu	8					(7)							
A/QC (Star	Package:	Dr.	☐ Level 4 (Full Validation)	J.	BLAGU			s (8021)	(Gas only)	DRO / MRC)			(SMIS)		PO4,SC	PCB's						
	itation	- 0"			I-, BLAGA			FINIE's	TPH	-	=	=	70 8		NO	3082						9
NEL		□ Othe	er	On Ice:		□ No		F	+	(GRO	418	504	r 82	S	03,	8/8		(AC				0
EDL	(Type)_			Sample Tem	berature: Z			MIBE	MTBE	B (G	pou	pou	100	eta	C,N	cide	(A)	j- \	4			S
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL 11 838	No.	BTEX + M	BTEX + M	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbies (Y or N)
9/16	1510	SOIL	TH-2 230'	402×1	COUL	-00		×		x					1	8	w		×	1		4
		4 6																				H
ate: VIG	Time: 1545	Relinquish	H Blegg	Received by:	Dack	Date 2/29/16	Time 1545	Ren	narks	S: B	u MAC VI	BP T:	STI	EVE	M	wsc.	AL					
ate:	Time:	Relinduish	the Watter	Received by:	ccredited laboratorie	BOI 16	Time	_									Щ			al report		



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

March 08, 2016

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199 FAX (505) 632-3903

RE: Mansfield 1M

OrderNo.: 1603273

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/5/2016 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1603273

Date Reported: 3/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Base 3-pt @27'

Project: Mansfield 1M

Collection Date: 3/4/2016 2:11:00 PM

Lab ID: 1603273-001

Received Date: 3/5/2016 8:05:00 AM

Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	3/7/2016 11:36:07 AM	24109
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/7/2016 10:54:20 AM	24099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/7/2016 10:54:20 AM	24099
Surr: DNOP	79.2	70-130		%Rec	1	3/7/2016 10:54:20 AM	24099
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	3/7/2016 10:44:34 AM	24095
Surr: BFB	119	66.2-112	S	%Rec	1	3/7/2016 10:44:34 AM	24095
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.042		mg/Kg	1	3/7/2016 10:44:34 AM	24095
Toluene	0.057	0.042		mg/Kg	1	3/7/2016 10:44:34 AM	24095
Ethylbenzene	ND	0.042		mg/Kg	1	3/7/2016 10:44:34 AM	24095
Xylenes, Total	0.28	0.085		mg/Kg	1	3/7/2016 10:44:34 AM	24095
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	3/7/2016 10:44:34 AM	24095

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1603273

Date Reported: 3/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID:

Mansfield 1M

1603273-002

Matrix: SOIL

Client Sample ID: North Wall 3-pt(12'-25')

Collection Date: 3/4/2016 2:30:00 PM

Received Date: 3/5/2016 8:05:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	37	30	mg/Kg	20	3/7/2016 11:48:31 AM	24109
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/7/2016 11:15:51 AM	24099
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2016 11:15:51 AM	24099
Surr: DNOP	81.2	70-130	%Rec	1	3/7/2016 11:15:51 AM	24099
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/7/2016 11:08:10 AM	24095
Surr: BFB	110	66.2-112	%Rec	1	3/7/2016 11:08:10 AM	24095
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.046	mg/Kg	1	3/7/2016 11:08:10 AM	24095
Toluene	ND	0.046	mg/Kg	1	3/7/2016 11:08:10 AM	24095
Ethylbenzene	ND	0.046	mg/Kg	1	3/7/2016 11:08:10 AM	24095
Xylenes, Total	ND	0.091	mg/Kg	1	3/7/2016 11:08:10 AM	24095
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	3/7/2016 11:08:10 AM	24095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 8 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
 - Sample container temperature is out of limit as specified

Lab Order 1603273

Date Reported: 3/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Wall 3-pt(10'-25')

3/7/2016 11:31:46 AM

3/7/2016 11:31:46 AM

3/7/2016 11:31:46 AM

24095

24095

24095

Project:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Mansfield 1M

Collection Date: 3/4/2016 2:44:00 PM

Received Date: 3/5/2016 8:05:00 AM

Lab ID: 1603273-003 Matrix: SOIL

Analyses Result POL Qual Units DF Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 3/7/2016 12:00:55 PM Chloride ND 30 mg/Kg 24109 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: KJH Diesel Range Organics (DRO) 3/7/2016 11:37:19 AM 24099 9.7 mg/Kg 1 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/7/2016 11:37:19 AM 24099 Surr: DNOP 82.2 70-130 %Rec 1 3/7/2016 11:37:19 AM 24099 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/7/2016 11:31:46 AM 24095 4.2 mg/Kg 1 Surr: BFB 109 %Rec 3/7/2016 11:31:46 AM 24095 66.2-112 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.042 mg/Kg 1 3/7/2016 11:31:46 AM 24095 Toluene ND 0.042 mg/Kg 3/7/2016 11:31:46 AM 24095

0.042

0.085

80-120

mg/Kg

mg/Kg

%Rec

1

ND

ND

112

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 8 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1603273

Date Reported: 3/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Wall 3-pt(12'-25')

Project:

Mansfield 1M

Collection Date: 3/4/2016 3:23:00 PM

Lab ID:

1603273-004

Matrix: SOIL

Received Date: 3/5/2016 8:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	3/7/2016 12:13:20 PM	24109
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2016 11:58:49 AM	24099
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	3/7/2016 11:58:49 AM	24099
Surr: DNOP	83.2	70-130	%Rec	1	3/7/2016 11:58:49 AM	24099
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	3/7/2016 11:55:16 AM	24095
Surr: BFB	108	66.2-112	%Rec	1	3/7/2016 11:55:16 AM	24095
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.043	mg/Kg	1	3/7/2016 11:55:16 AM	24095
Toluene	ND	0.043	mg/Kg	1	3/7/2016 11:55:16 AM	24095
Ethylbenzene	ND	0.043	mg/Kg	1	3/7/2016 11:55:16 AM	24095
Xylenes, Total	ND	0.085	mg/Kg	1	3/7/2016 11:55:16 AM	24095
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	3/7/2016 11:55:16 AM	24095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603273

08-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24109

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 24109

PQL

RunNo: 32638

Prep Date: 3/7/2016 Analysis Date: 3/7/2016

SeqNo: 998627

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

ND 1.5

Result

Sample ID LCS-24109

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID:

Batch ID: 24109

RunNo: 32638

Prep Date: 3/7/2016

SeqNo: 998628

Units: mg/Kg

Analyte

Analysis Date: 3/7/2016

SPK value SPK Ref Val %REC HighLimit

RPDLimit Qual

PQL

15.00

14

0

SPK value SPK Ref Val %REC LowLimit

110

Chloride

1.5

90

94.9

%RPD

LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits P Sample pH Not In Range

J

RL Reporting Detection Limit Sample container temperature is out of limit as specified Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603273

08-Mar-16

Qual

Client: Project: Blagg Engineering

Sample ID

Mansfield 1M

Sample ID	LCS-24099
Client ID:	LCSS
Prop Date:	2/7/2046

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 24099

RunNo: 32605

Prep Date: 3/7/2016

Analysis Date: 3/7/2016

SeqNo: 997481

Units: mg/Kg

%RPD

RPDLimit

SPK value SPK Ref Val %REC HighLimit Analyte Result PQL LowLimit Diesel Range Organics (DRO) 37 10 50.00 Surr: DNOP 4.0 5.000 80.8 70 130

Sample ID MB-24099	Samp	SampType: MBLK			tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID: 24099			F	RunNo: 3	2605				
Prep Date: 3/7/2016	Analysis Date: 3/7/2016		8	SeqNo: 9	97483	Units: mg/F				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							The system of	
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		78.8	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

10.77

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603273

08-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24095

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

66 2

Client ID:

PBS

Batch ID: 24095

RunNo: 32608

Prep Date: 3/4/2016 Analysis Date: 3/7/2016

SegNo: 998147

Units: mg/Kg

Analyte

Result PQL SPK value SPK Ref Val %REC

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND

1000

107

HighLimit

%RPD

Surr: BFB

1100

TestCode: EPA Method 8015D: Gasoline Range

112

Sample ID LCS-24095 Client ID:

LCSS

SampType: LCS Batch ID: 24095

RunNo: 32608

Prep Date:

3/4/2016

Analysis Date: 3/7/2016

SeqNo: 998148

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result PQL SPK value SPK Ref Val 24 5.0 25.00 1200 1000

%REC 94.4 115

80 66.2

HighLimit 120 112 %RPD **RPDLimit**

S

Page 7 of 8

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Value above quantitation range

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603273

08-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24095	Samp	ype: ME	BLK	Tes								
Client ID: PBS	Batch ID: 24095			F								
Prep Date: 3/4/2016 Analysis Date: 3/7/2016			7/2016		SeqNo: 9	98163	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.050				Sugarby.			Torrest.			
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120					

Sample ID LCS-24095	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS Batch ID: 24095				F						
Prep Date: 3/4/2016	Analysis Date: 3/7/2016				SeqNo: 9	98164	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	94.8	80	120			1394
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com RcptNo: 1 Work Order Number: 1603273 BLAGG Client Name: Received by/date Joe Archuleta 3/5/2016 8:05:00 AM Logged By: Completed By: Joe Archuleta 3/5/2016 8:31:45 AM Reviewed By: 03/17/10 Chain of Custody No 🗆 Not Present ▼ 1. Custody seals intact on sample bottles? Yes No [Not Present Yes V 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In Yes V No 🗌 NA 🗌 4. Was an attempt made to cool the samples? NA 🗌 Yes V No 🗍 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V Sample(s) in proper container(s)? Yes V No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 8. Are samples (except VOA and ONG) properly preserved? No V NA 🗌 Yes 9. Was preservative added to bottles? Yes No 🗌 No VOA Viais 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 for pH: No 🗌 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 Yes V 14. Is it clear what analyses were requested? Yes 🗸 No Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Cooler No Temp °C Condition Seal Date Signed By

Good

Yes

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 1 Hawkins NE - Albuquerque, NM 87109 1. 505-345-3975 Fax 505-345-4107 Analysis Request
www.hallenvironmental.com 11 Hawkins NE - Albuquerque, NM 87109 1. 505-345-3975 Fax 505-345-4107 Analysis Request
01 Hawkins NE - Albuquerque, NM 87109 I. 505-345-3975 Fax 505-345-4107 Analysis Request
I. 505-345-3975 Fax 505-345-4107 Analysis Request
270 SIMS) 270 SIMS) 8082 PCB's NO2,PO4,SO4)
10 10 10 10 10 10 10 10 10 10 10 10 10 1
(GRO d 418. d 418. l or 82. l or 82. loor 82. l or 82. l
Od 5 Do od 5 Do od 5 Od 7 Od Od 5 Od Od 5 Od
TPH 8015B (GRO / DRO / MRO TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,Ci,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 2270 (Semi-VOA) Air Bubbles (Y or N)
X
x x
×
X
SILL BP
CONTACT: STEVE MUSCAL
VD: VMOSGHQFEC



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

March 10, 2016

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL:
FAX

RE: Mansfield 1M OrderNo.: 1603444

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/9/2016 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1603444

Date Reported: 3/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Base 3-pt @ 27'

Project: Mansfield 1M

Collection Date: 3/8/2016 12:29:00 PM

Lab ID: 1603444-001

Matrix: MEOH (SOIL) Received Date: 3/9/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	41	30		mg/Kg	20	3/9/2016 10:41:09 AM	24185
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	s				Analyst	TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/9/2016 9:50:07 AM	24154
Surr: DNOP	78.3	70-130		%Rec	1	3/9/2016 9:50:07 AM	24154
EPA METHOD 8015D: GASOLINE F	RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/9/2016 10:34:07 AM	24131
Surr: BFB	108	66.2-112		%Rec	1	3/9/2016 10:34:07 AM	24131
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.043		mg/Kg	1	3/9/2016 10:34:07 AM	24131
Toluene	ND	0.043		mg/Kg	1	3/9/2016 10:34:07 AM	24131
Ethylbenzene	ND	0.043		mg/Kg	1	3/9/2016 10:34:07 AM	24131
Xylenes, Total	ND	0.086		mg/Kg	1	3/9/2016 10:34:07 AM	24131
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	3/9/2016 10:34:07 AM	24131

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1603444

Date Reported: 3/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall Extension 6-pt (12'-25

Project: Mansfield 1M

Collection Date: 3/8/2016 12:35:00 PM

Lab ID: 1603444-002

Matrix: MEOH (SOIL) Received Date: 3/9/2016 7:15:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	187				Analyst	LGT
Chloride	32	30	mg/Kg	20	3/9/2016 10:53:34 AM	24185
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/9/2016 10:11:37 AM	24154
Surr: DNOP	79.3	70-130	%Rec	1	3/9/2016 10:11:37 AM	24154
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	3/9/2016 10:57:41 AM	24131
Surr: BFB	107	66.2-112	%Rec	1	3/9/2016 10:57:41 AM	24131
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.045	mg/Kg	1	3/9/2016 10:57:41 AM	24131
Toluene	ND	0.045	mg/Kg	1	3/9/2016 10:57:41 AM	24131
Ethylbenzene	ND	0.045	mg/Kg	1	3/9/2016 10:57:41 AM	24131
Xylenes, Total	ND	0.090	mg/Kg	1	3/9/2016 10:57:41 AM	24131
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	3/9/2016 10:57:41 AM	24131

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603444

11-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24185

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 24185

RunNo: 32693

Prep Date: 3/9/2016 Analysis Date: 3/9/2016

SeqNo: 1000596

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

Result PQL ND

Sample ID LCS-24185 LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date:

Batch ID: 24185

RunNo: 32693

Analysis Date: 3/9/2016

SeqNo: 1000597

Units: mg/Kg

Analyte

SPK value SPK Ref Val

%REC

HighLimit

Qual

PQL

15.00

RPDLimit

Chloride

0

SPK value SPK Ref Val %REC LowLimit

93.0

110

14

%RPD

3/9/2016

1.5

90

Qualifiers:

H

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit Sample container temperature is out of limit as specified Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603444

11-Mar-16

Client: Project: Blagg Engineering

Sample ID

Mansfield 1M

MB-24154

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PRS Batch ID: 24154

RunNo: 32662

Prep Date: 3/9/2016 Analysis Date: 3/9/2016

SeqNo: 999359

Units: mg/Kg

Analyte Diesel Range Organics (DRO)

PQL Result ND 10 SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Sur: DNOP

8.1

81 0

70

70

LowLimit

LowLimit

31.2

70

31.2

70

Sample ID LCS-24154 Client ID: LCSS

SampType: LCS Batch ID: 24154 TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 32662 SeqNo: 999422

130

Units: mg/Kg

HighLimit

Qual

Analyte Diesel Range Organics (DRO) Surr: DNOP

Result PQL 40 4.0

SPK value SPK Ref Val 50.00 5.000

SPK value SPK Ref Val

0

0

50.15

5.015

48.92

4.892

10.00

%REC LowLimit 80.8 65.8 80.1

136 130 **RPDLimit**

Prep Date:

Sample ID 1603444-001AMS

SampType: MS

Analysis Date: 3/9/2016

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

%RPD

Client ID: Prep Date:

West Base 3-pt @ 2

3/9/2016

Batch ID: 24154

PQL

10

RunNo: 32662

Analyte

3/9/2016

Analysis Date: 3/9/2016

10

SeqNo: 999680 %REC

79.0

79.7

Units: mg/Kg HighLimit

162

130

RPDLimit Qual

Diesel Range Organics (DRO) Surr: DNOP

4.0 SampType: MSD

40

41

3.9

TestCode: EPA Method 8015M/D: Diesel Range Organics

0

West Base 3-pt @ 2

Batch ID: 24154

9.8

RunNo: 32662

Prep Date:

3/9/2016

Sample ID 1603444-001AMSD

Analysis Date: 3/9/2016

Diesel Range Organics (DRO)

Surr: DNOP

Result PQL SPK value SPK Ref Val

SeqNo: 999681 %REC

84.2

80.4

Units: mg/Kg HighLimit

162

130

%RPD **RPDLimit** Qual 3.90 31.7

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

I Analyte detected below quantitation limits Page 4 of 6

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603444 11-Mar-16

Client:

Blagg Engineering

Project:

Mansfield 1M

Sample ID MB-24131

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 24131

RunNo: 32666

Prep Date: 3/8/2016 Analysis Date: 3/9/2016

SeqNo: 1000133

Units: mg/Kg

SPK value SPK Ref Val

Analyte

Result PQL 5.0 %REC

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

ND 1000

1000

105

112

Surr: BFB

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Sample ID LCS-24131 Client ID:

LCSS

SampType: LCS Batch ID: 24131

RunNo: 32666

LowLimit

66.2

120

112

Prep Date: 3/8/2016 Analysis Date: 3/9/2016

SeqNo: 1000134

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit Gasoline Range Organics (GRO) 24 5.0 25.00 95.0 80 Surr: BFB 1100 1000 110 66.2

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits S % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603444

11-Mar-16

Client: Project: Blagg Engineering

Mansfield 1M

Sample ID MB-24131	Samp	Гуре: М	BLK	Tes	tiles					
Client ID: PBS	Batch ID: 24131			F	RunNo: 3	2666				
Prep Date: 3/8/2016	e: 3/8/2016 Analysis Date: 3/9/2016 SeqNo: 1000154				000154	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025						17.8		
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID LCS-24131 SampType: LCS				Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID: LCSS	Client ID: LCSS Batch ID: 24131			F	RunNo: 32666								
Prep Date: 3/8/2016	Analysis [Analysis Date: 3/9/2016			SeqNo: 1	000155	Units: mg/F	J/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.83	0.025	1.000	0	83.1	80	120						
Toluene	0.87	0.050	1.000	0	87.2	80	120						
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120						
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120						
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120						

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

Sample Log-In Check List

Client Name: BLAGG Work Order Number				160344	4	: 1		
Received by/date:	TX.	03/09/1	6			24	T. P. Galla	T. E. G.
Logged By: Linds	say Mangin	3/9/2016 7:1	5:00 AM			of young		On the second
Completed By: Linds	say Mangin	3/9/2016 7:5	3:09 AM			Julla	,	
Reviewed By:	0	03/0	9/16			UVU		
Chain of Custody	-		1110					
1. Custody seals intac	t on sample bottles	?		Yes		No 🗆	Not Present	
2. Is Chain of Custody	complete?			Yes [7	No 🗆	Not Present	
3. How was the sample	e delivered?			Courie	1			
Log In								
4. Was an attempt ma	de to cool the sam	ples?		Yes	V	No 🗆	NA 🗆	
5. Were all samples re	ceived at a temper	ature of >0° C to 6	.0°C	Yes 5		No 🗆	NA 🗆	
6. Sample(s) in proper	container(s)?			Yes	~	No 🗆		
7. Sufficient sample vo	lume for indicated	est(s)?		Yes E		No 🗆		
8. Are samples (except	VOA and ONG) pr	roperly preserved?		Yes 5		No 🗆		
9. Was preservative ac	ided to bottles?			Yes [No 🗹	NA 🗆	
10.VOA vials have zero	headspace?			Yes [No 🗆	No VOA Vials	
11. Were any sample of	ontainers received	broken?		Yes		No 🗹	# of preserved	The state of the s
12. Does paperwork ma	Caladal attack dat			Yes 8		No 🗆	bottles checked for pH:	
(Note discrepancies		9)		165		110		or >12 unless noted)
13. Are matrices correct	ly identified on Cha	in of Custody?		Yes I	1	No 🗆	Adjusted?	
14. Is it clear what analy	ses were requeste	17		Yes 5		No 🗆	VIOLET N. B. ZO. W.	
 Were all holding time (If no, notify custome)		Yes [No 🗆	Checked by:	
s								
Special Handling (I		an area area		Secret F	7	# D	57	
16. Was client notified o	A DOMESTIC AND LINES OF	with this order?		Yes [-1	No 🗆	NA 🗹	
Person Notifie	d.		Date	2010	=20	den .	20	
By Whom:			Via	eMail		hone Fax	In Person	
Regarding:			PC.					
Client Instructi	1.050-0							I make
17. Additional remarks:								
18. Cooler Information	1	The state of the						
The same of the sa	np °C Condition		al No	Seal Date		Signed By	To have	
1 1.1	Good	Yes						

		Chain-of-Custody Record THE BP AMERICA BLAGG ENGWEERWG INC.			Time:	ASAP SAME DAY													NTA		
		5 ENG		Project Name	e: FIELD I		ľ	49	01 H		www	hall.	envi	ronn	nent	al.co	om				
				Project #:	177					5-34							4107				
hone	#: 50	5-32	0-1183						5 7			A	naly	sis I	Req	uest	t				
nail o	r Fax#:			Project Mana	ger:		10	nly)	(03					070							
A/QC Stan	Package: dard		☐ Level 4 (Full Validation)	J.	BLAGG		\$ (802	+ TPH (Gas only)	DRO / MED			SIMS)		PO4,S	PCB's						
NEL	itation AP	□ Othe	er	On Ice:	Nes Yes	□ No	+ MISE + IMB's (8021)	+ TPH	-	18.1)	04.1)	8270 8		ON'SC	\$ 18082		(A)				or N)
EDD	(Type)			Sample Tem	perature:	Production of	38	BE	(G	9d 4	90	0 or	stals	ž.	ides	8	9	DE			ځ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1603444	BTEX + MI	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
1/2016	1229	SOIL		402×1	COOL	-001	×	-	X				_		3	w	w	X		H	_
u-	1235	11	6-pt (12-25')	(t	11	-002	×		×		-		-					×	-		
													1								
													1								
2016 ate:	Time: 13-12 Time: 1829)	Relinquish Relinquish	(Blogg)	Received by:	Wasta	3/8/2016 13:42 Pate Time 03/09/16-07/16		nark	s: B	ILL NTA V	CT:	5	TEV /M	/E	MO	ska HQ	K	EC			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
2113. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
100 R. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised August 1, 2011 Surface Waste Management Facility Operator

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ALTROVAL TO ACCEST SOCIE WASTE
1. Generator Name and Address: BP America Production Co. 200 Energy Ct. Farmington, NM 87401
2. Originating Site: 3/10/04
Mansfield 001M
Paykey: VHIXONEVRM
3. Location of Material (Street Address, City, State or ULSTR): QRT/QRT: SW/NE Unit: G Section: 19 T30N R09W 3/3//6 - 460 Ly
4. Source and Description of Waste: Hydrocarbon impacted soil derived from remedial activities. Estimated Volume 250 yd bbls Known Volume (to be entered by the operator at the end of the haul) (yd bbls
SEMERATOR GERTIFICATION STATEMENT OF WASTE STATUS
I) Steve Moskail (James), representative or authorized agent for the America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Gil field wastes generated from all and gas exploration and production operations and are not mixed we exempt waste.
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste in characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description if
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS Sieve Moskal BP Americal Production Company authorize IEI to complete testing/sign the Generator Waste Testing Certification. I prepresentative for do hereby centrepresentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content at have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 Nice results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Crossfire
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Industrial Ecosystems Inc., JFJ Waste Management Facility (JFJ), Permit NM-01-0010B
Address of Facility: #49 CR 3150 Aztec, NM
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other
aste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
INTO A MARKA SERVICES AND A CONTROL OF THE CONTROL
PRINT NAME: DATE: 2016
SIGNATURE: TELEPHONE NO.: 1032-1782