State of New Mexico Energy Minerals and Natural Resources

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

	OPERATOR	Initial Report	Final Report
Name of Company: BP	Contact: Steve Moskal		
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497		
Facility Name: Fields A 001A	Facility Type: Natural gas well		

Surface	Owner	Federal
Surface	Owner.	reuera

Mineral Owner: Federal

API No. 3004522398

LOCATION OF RELEASE Unit Letter Township North/South Line Feet from the East/West Line County: San Juan Section Range Feet from the D 25 32N 11W 980 North 1.460 West

Latitude <u>36.960778°</u> Longitude <u>-107.945354°</u>

NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume Recovered: N/A					
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: none	Date and Hour of Discovery: none					
Was Immediate Notice Given?	If YES, To Whom?	-					
By Whom?	Date and Hour						
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.						
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.* Sampling of BTEX and chlorides below BGT closure standards. TPH exceeded the removed from the BGT location prior to backfill. Field reports and lab	the soil beneath the BGT was done dur BGT closure requirements. Approxima pratory results are attached.	ing removal. Soil analysis resulted for tely 20 cubic yards of impacted soil were					
Describe Area Affected and Cleanup Action Taken.* No further action will be addressed via the spill and release guidelines. Final laboratory a	necessary. Impacted material was remunalysis determined no remedial action	oved during the BGT closure activity and is required.					
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	the best of my knowledge and underst enotifications and perform corrective as the NMOCD marked as "Final Report" ate contamination that pose a threat to t does not relieve the operator of respon	and that pursuant to NMOCD rules and ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other					
Signature: Mars Min	OIL CONSER	VATION DIVI SION					
Printed Name: Steve Moskal	Approved by Environmental Special	ist and ist					
Title: Field Environmental Coordinator	Approval Date: 7 35 3017	Expiration Date:					
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached					
Date: May 17, 2017 Phone: 505-326-9497							
Attach Additional Sheets If Necessary	NVF1720637	542					

OIL CONS. DIV DIST. 3

MAY 18 201/

CLIENT: BP	BLAGG ENG P.O. BOX 87, BLO (505)	INEERING, INC OMFIELD, NM 632-1199	C. 87413	API #: 30045	22398 A
FIELD REPORT:	(circle one): BGT CONFIRMATION / REL	EASE INVESTIGATION / OT	HER:	PAGE #: <u>1</u>	of _1_
SITE INFORMATION QUAD/UNIT: C SEC: 25 TWP:	SITE NAME: FIELDS A 32N RNG: 11W PM: I	#1A NM CNTY: SJ	ST: NM	DATE STARTED: 0 DATE FINISHED:	3/24/17
<u>1/4 - 1/4/FOOTAGE: 980'N / 1,46</u> LEASE #: NM010989	D'W NE/NW LEASE TYPE PROD. FORMATION: MV CONTI	FEDERAL / STATE / I STRIKE RACTOR: MBF - R. P	FEE / INDIAN	ENVIRONMENTAL SPECIALIST(S):	JCB
REFERENCE POINT 1) 95 BGT (SW/DB) - A 2)	WELL HEAD (W.H.) GPS CO GPS COORD.: 36.960 GPS COORD.: 36.960	ORD.: <u>36.96062</u> 778 X 107.945354	DISTANCE/BEA	GL ELEV.: RING FROM W.H.:87', RING FROM W.H.:	6,268' N44E
3)	GPS COORD.: GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA: 1) SAMPLE ID:95 BGT 5-pt. (CHAIN OF CUSTODY RECORD(S) # OR LA	B USED: HALL SAMPLE TIME: 0855	LAB ANALYSIS: 801	5B/8021B/300.0 (Cl)	OVM READING (ppm) 0.0
2) SAMPLE ID: 3) SAMPLE ID: 4) SAMPLE ID:	SAMPLE DATE: SAMPLE DATE: SAMPLE DATE: SAMPLE DATE:	SAMPLE TIME: SAMPLE TIME: SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE SUGHTL CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY (SLIGHTLY MOIST) MOIST/W SAMPLE TYPE: GRAB (COMPOSITE) +	SOIL TYPE: SAND' SILTY SAND / SILT / LOWISH ORANGE PLA Y COHESIVE / COHESIVE / HIGHLY COHESIVE DOSE FIRM / DENSE / VERY DENSE HC 0 ET / SATURATED / SUPER SATURATED # OF PTS. 5	SILTY CLAY / CLAY / GRAVEI STICITY (CLAYS): NON PLASTIC NSITY (COHESIVE CLAYS & S DOOR DETECTED: YES NO I	L OTHER BEDRO / SLIGHTLY PLASTIC / C SILTS): SOFT / FIRM / EXPLANATION -	CK (SANDSTONE) OHESIVE / MEDIUM PLASTIC / I STIFF / VERY STIFF / HARD	HIGHLY PLASTIC
DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER:	D EXPLANATION - S: LOST INTEGRITY OF EQUIPMENT: YES DAND/OR OCCURRED : YES NO EXPLANAT YES NO EXPLANATION - <u>105 BBL SH</u>	NO EXPLANATION -	ABOVE-GRADE TA	NK TO BE SET ATOP BO	GT LOCATION.
SOIL IMPACT DIMENSION ESTIMATION DEPTH TO GROUNDWATER:	:: ñ. X ñ. IEAREST WATER SOURCE:N	X ft. EAREST SURFACE WATER:	EXCAVATION ES <1,000' NMOC	TIMATION (Cubic Yards) : CD TPH CLOSURE STD:	<u>NA</u> 100 ppm
SITE SKETCH	BGT Located : off (on site	PLOT PLAN circl	e: attached OVM	ICALIB. READ. = 99.8 ICALIB. GAS = 100 E: 9:00 (anyom DATE:	ppm _ppm
PI	BERM	FENCE PBGTL T.B. ~ 5' B.G.		MISCELL. N vo: ref. #: P-686 nd: VHIXONEV	otes 182
METER C		SEPARATOR		y #: ermit date(s): 06 DCD Appr. date(s): 04 DCD Appr. date(s): 04 D ppm ≃ parts per mill A BGT Sidewalls Visible:	5/03/10 W08/16 w Meter Ion Y /(N)
NOTES: BGT = BELOW/GRADE TANK; E.D. = EXCAVATI T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEI APPLICABLE OR NOT AVAILABLE: SW- SINGI	W.H. ON DEPRESSION; B.G. = BELOWGRADE; B = BELOW OWGRADE TANK LOCATION; SPD = SAMPLE POINT E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM:	X (T.H. = TEST HOLE; ~ = APPROX.; V DESIGNATION; R.W. = RETAINING V DB - DOUBLE BOTTOM.	- S.P.D.	BGT Sidewalls Visible: BGT Sidewalls Visible: Agnetic declination:	Y/N Y/N 10°E
NOTES: GOOGLE EARTH IMAG	ERY DATE: 3/15/2015.	ONSITE:O3/24/1	17		

ed: 11/26/13

BEI1005E-6.SKF

Hall E	nvironmental Anal	ysis Labora	tory, Inc.			Date Reported: 3/28/20	17
CLIENT:	Blagg Engineering	- 	(Client Sampl	e ID: 95	BGT 5-pt@5'	
Project:	Fields A 1A			Collection 1	Date: 3/2	24/2017 8:55:00 AM	
Lab ID:	1703C94-001	Matrix:	MEOH (SOIL)	Received	Date: 3/2	25/2017 8:15:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: MRA
Chloride		ND	30	mg/Kg	20	3/27/2017 9:57:25 AM	30913
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analyst	: JME
Diesel R	ange Organics (DRO)	180	9.7	mg/Kg	1	3/27/2017 9:54:11 AM	30906
Motor Oi	Range Organics (MRO)	360	49	mg/Kg	1	3/27/2017 9:54:11 AM	30906
Surr: [DNOP	113	70-130	%Rec	1	3/27/2017 9:54:11 AM	30906
EPA MET	HOD 8015D: GASOLINE R	ANGE	•			Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	3.5	mg/Kg	1	3/27/2017 10:28:34 AM	30878
Surr: E	BFB	85.7	54-150	%Rec	1	3/27/2017 10:28:34 AM	30878
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.017	mg/Kg	1	3/27/2017 10:28:34 AM	30878
Toluene		ND	0.035	mg/Kg	1	3/27/2017 10:28:34 AM	30878
Ethylben	zene	ND	0.035	mg/Kg	1	3/27/2017 10:28:34 AM	30878
Xylenes,	Total	ND	0.069	mg/Kg	1	3/27/2017 10:28:34 AM	30878
Surr: 4	I-Bromofluorobenzene	93.8	66.6-132	%Rec	1	3/27/2017 10:28:34 AM	30878

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

Qualifiers:	٠	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

Analytical Report Lab Order 1703C94

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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	(īype)_	r	1	Sample Tam	perature: 1.7		臣	196	0	ž	8	0				Ĭ	Ŋ			<u>ح</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.94	TEX + RF	TEX + M	PH 60158	PH (Meth	DB (Meth	AH's (831	CKA 8 M			270 (Sem	CHURI			ír Bubble:
3/24/2017	0255	SOIL	95 BGT 5-PE 0.5	402×1	Car	-001	Ň	α	X	-	ш		Υ ·	∢ ∂		60	X			
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Client:Blagg EngineeringProject:Fields A 1A

Sample ID MB-30913 Client ID: PBS Prep Date: 3/27/2017	SampType: mblk Batch ID: 30913 Analysis Date: 3/27/2017	TestCode: EPA Method RunNo: 41666 SeqNo: 1308419	e: EPA Method 300.0: Anions 0: 41666 0: 1308419 Units: mg/Kg							
Analyte Chloride	Result PQL SPK valu ND 1.5	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual						
	SampType: Ics TestCode: EPA Method 300.0: Anions									
Sample ID LCS-30913	SampType: Ics	TestCode: EPA Method	300.0: Anions							
Sample ID LCS-30913 Client ID: LCSS	SampType: Ics Batch ID: .30913	TestCode: EPA Method RunNo: 41666	300.0: Anions							
Sample ID LCS-30913 Client ID: LCSS Prep Date: 3/27/2017	SampType: Ics Batch ID: 30913 Analysis Date: 3/27/2017	TestCode: EPA Method RunNo: 41666 SeqNo: 1308420	Units: mg/Kg							
Sample ID LCS-30913 Client ID: LCSS Prep Date: 3/27/2017 Analyte	SampType: Ics Batch ID: . 30913 Analysis Date: 3/27/2017 Result PQL SPK valu	TestCode: EPA Method RunNo: 41666 SeqNo: 1308420 e SPK Ref Val %REC LowLimit	1 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual						

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

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28-Mar-17

1703C94

WO#:

Sample ID MB-30906	SampType: MI	BLK	Test	Code: EF	PA Method	8015M/D: Die	sel Rango	e Organics	
Client ID: PBS	Batch ID: 30	906	F	tunNo: 41	1655				
Prep Date: 3/27/2017	Analysis Date: 3,	/27/2017	S	eqNo: 13	307466	Units: mg/K	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Sur: DNOP	10	10.00		101	70	130			
Sample ID LCS-30906	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organice	
Client ID: LCSS	Batch ID: 30	906	F	lunNo: 41	1655				
Prep Date: 3/27/2017	Analysis Date: 3,	/27/2017	S	eqNo: 1	307467	Units: mg/K	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50 10	50.00	0	100	63.8	116			
Sur: DNOP	4.6	5.000		91.4	70	130			
Sample ID 1703C94-001AMS	S SampType: M	S	Tes	tCode: Ef	PA Method	8015M/D: Die	sel Rang	e Organice	
Client ID: 95 BGT 5-pt@5'	Batch ID: 30	906	F	lunNo: 4	1655				
Prep Date: 3/27/2017	Analysis Date: 3	/27/2017	5	SeqNo: 1	307589	Units: mg/K	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	200 10	50.25	182.5	40.9	51.6	130			S
Surr: DNOP	5.7	5.025		113	70	130			
Sample ID 1703C94-001AM	SD SampType: M	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organice	
Client ID: 95 BGT 5-pt@5'	Batch ID: 30	906	F	RunNo: 4	1655				
Prep Date: 3/27/2017	Analysis Date: 3	/27/2017	5	SeqNo: 1	307590	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140 10	50.35	182.5	-90.7	51.6	130	39.0	20	RS
Sur: DNOP	5.7	5.035		112	70	130	0	0	
Sample ID MB-30886	SampType: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esei Rang	e Organics	
Client ID: PBS	Batch ID: 30	886	F	RunNo: 4	1655				
Prep Date: 3/24/2017	Analysis Date: 3	/27/2017	5	SeqNo: 1	307787	Units: %Re	0		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11	10.00		112	70	130			
Sample ID LCS-30886	SampType: LC	CS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 30	886	F	RunNo: 4	1655				
Prep Date: 3/24/2017	Analysis Date: 3	/27/2017	5	SeqNo: 1	307789	Units: %Re	6		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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

1703C94

WO#:

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28-Mar-17

Client:Blagg EngineeringProject:Fields A 1A

Sample ID LCS-30886	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics				
Client ID: LCSS	Batch ID: 30886	RunNo: 41655						
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeqNo: 1307789	Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HiahLimit %RPD	RPDLimit Qual				
Sur: DNOP	5.2 5.000	0 105 70	130					
Sample ID ADOCP JME 2	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics				
Client ID: LCSS	Batch ID: 30886	RunNo: 41655	•	•				
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeaNo: 1307790	Units: %Rec					
Analyte	Hesuit POL SPK value	SPK Her Val %HEC LOWLIMIT	HighLimit %HPD	RPDLimit Qual				
Sur: DNOP	5.4 5.000	0 107 70	130					
Sample ID ADOCP JME 3	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics				
Sample ID ADOCP JME 3 Client ID: LCSS	SampType: LCS Batch ID: 30886	TestCode: EPA Method RunNo: 41655	8015M/D: Diesel Range	Organics				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791	8015M/D: Diesel Range Units: %Rec	Organics				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Analyte	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 SPK Ref Val %REC LowLimit	8015M/D: Diesel Range Units: %Rec HighLimit %RPD	Organics RPDLimit Qual				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Anatyte Surr: DNOP	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result POL SPK value 5.3 5.000	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 e SPK Ref Val %REC LowLimit 0 106 70	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130	Organics RPDLimit Qual				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Analyte Surr: DNOP	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result POL SPK value 5.3 5.000 SampType: LCS	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 9 SPK Ref Val %REC LowLimit 0 106 70 TestCode: EPA Method	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130 8015M/D: Diesel Range	Organics RPDLimit Qual Organics				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Analyte Surr: DNOP Sample ID ADOCP JME 4 Client ID: LCSS	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value 5.3 5.000 SampType: LCS Batch ID: 30886	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 SPK Ref Val %REC LowLimit 106 70 TestCode: EPA Method RunNo: 41655	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130 8015M/D: Diesel Range	Organics RPDLimit Qual Organics				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Analyte Surr: DNOP Sample ID ADOCP JME 4 Client ID: LCSS Prep Date: 3/24/2017	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result POL SPK value 5.3 5.000 SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 9 SPK Ref Val %REC LowLimit 0 106 70 TestCode: EPA Method RunNo: 41655 SeqNo: 1307792	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130 8015M/D: Diesel Range Units: %Rec	Organics RPDLimit Qual Organics				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Analyte Surr: DNOP Sample ID ADOCP JME 4 Client ID: LCSS Prep Date: 3/24/2017 Analyte	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value 5.3 5.000 SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 SPK Ref Val %REC LowLimit 0 106 70 TestCode: EPA Method RunNo: 41655 SeqNo: 1307792 SPK Ref Val %REC LowLimit	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130 8015M/D: Diesel Range Units: %Rec HighLimit %RPD	Organics RPDLimit Qual Organics RPDLimit Qual				
Sample ID ADOCP JME 3 Client ID: LCSS Prep Date: 3/24/2017 Anatyte Sur: DNOP Sample ID ADOCP JME 4 Client ID: LCSS Prep Date: 3/24/2017 Analyte Sur: DNOP	SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value 5.3 5.000 SampType: LCS Batch ID: 30886 Analysis Date: 3/27/2017 Result PQL SPK value 5.1 5.000	TestCode: EPA Method RunNo: 41655 SeqNo: 1307791 9 SPK Ref Val %REC LowLimit 0 106 70 TestCode: EPA Method RunNo: 41655 SeqNo: 1307792 9 SPK Ref Val %REC LowLimit 0 102 70	8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130 8015M/D: Diesel Range Units: %Rec HighLimit %RPD 130	Organics RPDLimit Qual Organics RPDLimit Qual				

Qualifiers:

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1703C94

WO#:

28-Mar-17

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Client: Blagg Engineering Project: Fields A 1A

Sample ID MB-30878	Samp	Гуре: МІ	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batc	h ID: 30	878	F	RunNo: 4	1673					
Prep Date: 3/24/2017	Analysis [Analysis Date: 3/27/2017 SeqNo: 1307786 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	630		1000		62 9	54	150				
					02.0						
Sample ID LCS-30878	Samp	Гуре: LC		Tes	tCode: El	PA Method	8015D: Gase	oline Rang		<u> </u>	
Sample ID LCS-30878 Client ID: LCSS	Samp] Batc	Гуре: LC h ID: 30	:S 878	 Tes F	tCode: El RunNo: 4	PA Method 1673	8015D: Gase	oline Rang	8		
Sample ID LCS-30878 Client ID: LCSS Prep Date: 3/24/2017	Samp Batc Analysis [Гуре: LC h ID: 30 Date: 3/	27/2017	Tes F	tCode: El RunNo: 4 SeqNo: 1	PA Method 1673 307788	8015D: Gase	bline Rang			
Sample ID LCS-30878 Client ID: LCSS Prep Date: 3/24/2017 Analyte	Samp Batc Analysis [Result	Гуре: LC h ID: 30 Date: 3, PQL	27/2017 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 1673 307788 LowLimit	8015D: Gaso Units: mg/H HighLimit	oline Rang (g %RPD	e RPDLimit	Qual	
Sample ID LCS-30878 Client ID: LCSS Prep Date: 3/24/2017 Analyte Gasoline Range Organics (GRO)	Samp Batc Analysis [Result 28	Гуре: LC h ID: 30 Date: 3, PQL 5.0	25.00	Tes F SPK Ref Val 0	tCode: El RunNo: 4 SeqNo: 1 %REC 110	PA Method 1673 307788 LowLimit 76.4	8015D: Gaso Units: mg/H HighLimit 125	bline Rang (g %RPD	e RPDLimit	Qual	

Qualifiers:

- ٠ Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Ε 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

WO#: 1703C94

28-Mar-17

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Client:Blagg EngineeringProject:Fields A 1A

Sample ID MB-30878	Samp	Гуре: МЕ	BLK	Tes	PA Method	8021B: Vola	tiles			
Client ID: PBS	Batc	h ID: 30	878	F	RunNo: 4	1673				
Prep Date: 3/24/2017	Analysis [Date: 3/	27/2017	5	SeqNo: 1307844 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.70		1.000		69.7	66.6	132			
Sample ID LCS-30878	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 30	878	F	RunNo: 4	1673				
Prep Date: 3/24/2017	Analysis I	Date: 3/	27/2017	5	SeqNo: 1	307845	Units: mg/i	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Totuene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Sur A Bromofiumboorano	0.73		1 000		79 7	66.6	132			

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

WO#: 1703C94 28-Mar-17

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Received by/date: 0=225/17 Logged By: Lindsay Mangin 3/25/2017 8:15:00 AM Completed By: Lindsay Mangin 3/27/2017 7:30:15 AM Reviewed By: Lindsay Mangin 3/27/2017 7:30:15 AM Chain of Custody U3/27/17 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples?	Yes ☐ Yes ✔ Courier Yes ✔	No	Not Present ☑ Not Present □	
Logged By: Lindsay Mangin 3/25/2017 8:15:00 AM Completed By: Lindsay Mangin 3/27/2017 7:30:15 AM Reviewed By: A 3/27/2017 7:30:15 AM Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples?	Yes ☐ Yes ✔ Courier Yes ✔	No D	Not Present 🗹 Not Present 🗌	
Completed By: Lindsay Mangin 3/27/2017 7:30:15 AM Reviewed By: Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples?	Yes ☐ Yes ☑ Courier Yes ☑	No -	Not Present ☑ Not Present □	
Reviewed By: <u>Chain of Custody</u> 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? <u>Log In</u> 4. Was an attempt made to cool the samples?	Yes ☐ Yes ✔ Courier Yes ✔	No	Not Present ☑ Not Present □	
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples?	Yes ☐ Yes ✔ Courier Yes ✔	No 🗌 No 🗍	Not Present ☑ Not Present □	
 Custody seals intact on sample bottles? Is Chain of Custody complete? How was the sample delivered? Log In 4. Was an attempt made to cool the samples?	Yes ☐ Yes ✔ <u>Courier</u> Yes ✔	No 🗌 No 🗍	Not Present ☑ Not Present □	
 Counter and the sample bottles? Is Chain of Custody complete? How was the sample delivered? Log In Was an attempt made to cool the samples? 	Yes 🗹 Courier Yes 🗹	No 🗌	Not Present	
 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? 	Courier Yes	No 🗆		
Log In 4. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	NA	
4. Was an attempt made to cool the samples?	Yes 🗹	No	NA	
4. Was an attempt made to cool the samples?	Yes 🗹	No	NA	
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0° C	Yes 🗹	No 🗌	NA 🗌	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌	
10. VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🔽	4 . f	
		_	# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗌	for pH:	
(Note discrepancies on chain of custody)	Vac V	No	Adjusted?	1 - 12 011635 110(6)
13. Are matrices correctly identified on Chain of Custody r	Ves V		_	
15 Were all holding times able to be met?	Yes V	No 🗌	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date				1.35.17
By Whom: Via:	eMail	Phone Fax	In Person	
Regarding:		9696-8019-96-80-99-96-96-96-96-96-96-96-96-96-96-96-96-	Hand Hand Handan Anna an Anna an Anna Anna Anna Ann	
Client Instructions:	3:4313+3_+3}+3/42+3/43+3/43+3/43+3/43+3			
17. Additional remarks:				
18. <u>Cooler Information</u>		1		
Cooler No Temp °C Condition Seal Intact Seal No S	eal Date	Signed By		

505-947-9900 BP AMERICA PRODUCTION COMPANY FIELDS A 001A API 3004522398 LEASE NMNM010989 980 FNL 1460 FWL (C) SEC 25 T32N R11W SAN JUAN COUNTY ELEV 6268 LAT 36° 57' 38.268" LONG 107°56' 43.908"



					Analytical Report	
		-			Lab Order 1703E00	
Hall Environmental Analysis	Labora	atory, Inc.			Date Reported: 3/30/20	17
CLIENT: Blagg Engineering		(Client Samp	le ID: 95	BGT 5-pt @ 5'-7'	
Project: Fields A 1A			Collection	Date: 3/2	8/2017 9:40:00 AM	
Lab ID: 1703E00-001	Matrix:	MEOH (SOIL)	Received	Date: 3/2	9/2017 7:15:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	s			Analyst	том
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/29/2017 9:17:12 AM	30953
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2017 9:17:12 AM	30953
Surr: DNOP	110	70-130	%Rec	1	3/29/2017 9:17:12 AM	30953
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/29/2017 8:55:27 AM	30945
Surr: BFB	84.4	54-150	%Rec	1	3/29/2017 8:55:27 AM	30945

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 3
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:	Blagg Engineering
Project:	Fields A 1A

Sample ID	LCS-30953	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015M/D: D	esel Rang	e Organics	
Client ID:	LCSS	Batc	h ID: 30	953	F	RunNo: 4	1718				
Prep Date:	3/29/2017	Analysis [Date: 3	/29/2017	S	SeqNo: 1	309557	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	47	10	50.00	0	94.4	63.8	116			
Surr: DNOP		4.7		5.000		93.0	70	130			
Sample ID	MB-30953	Samp	Туре: МІ	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batc	h ID: 30	953	F	RunNo: 4	1718				
Prep Date:	3/29/2017	Analysis [Date: 3	29/2017	5	SeqNo: 1	309558	Units: mg/l	<g< td=""><td></td><td></td></g<>		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		105	70	130			
Sample ID	1703E00-001AMS	Samp	Гуре: М	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	95 BGT 5-pt @ 5'-	7' Batc	h ID: 30	953	F	RunNo: 4	1718		0	5	
Prep Date:	3/29/2017	Analysis [Date: 3/	29/2017	S	SeqNo: 1	310025	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	51	10	50.66	1.773	96.4	51.6	130			
Surr: DNOP		5.3		5.066		104	70	130			
Sample ID	1703E00-001AMS	D Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	95 BGT 5-pt @ 5'-	7' Batc	h ID: 30	953	F	RunNo: 4	1718				
Prep Date:	3/29/2017	Analysis [Date: 3/	29/2017	S	SeqNo: 1	310071	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	50	9.8	49.16	1.773	99.0	51.6	130	0.301	20	
Surr: DNOP		5.3		4.916		107	70	130	0	0	

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

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WO#: 1703E00

30-Mar-17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** Fields A 1A

Sample ID MB-30945	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batc	h ID: 30	945	F	RunNo: 4	1734				
Prep Date: 3/28/2017	Analysis D	Date: 3/	29/2017	S	SeqNo: 1	310271	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	670		1000		66.8	54	150			
Sample ID LCS-30945	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID LCS-30945 Client ID: LCSS	Samp Batc	Type: LC	:S 945	Tes F	tCode: El RunNo: 4	PA Method 1734	8015D: Gaso	oline Rang	e	
Sample ID LCS-30945 Client ID: LCSS Prep Date: 3/28/2017	Samp Batcl Analysis D	Type: LC h ID: 30 Date: 3/	S 945 29/2017	Tes F	tCode: El RunNo: 4 SeqNo: 1	PA Method 1734 310272	8015D: Gaso Units: mg/H	bline Rang	e	
Sample ID LCS-30945 Client ID: LCSS Prep Date: 3/28/2017 Analyte	SampT Batcl Analysis I Result	Type: LC h ID: 30 Date: 3/ PQL	29/2017 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 1734 310272 LowLimit	8015D: Gaso Units: mg/k HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID LCS-30945 Client ID: LCSS Prep Date: 3/28/2017 Analyte Gasoline Range Organics (GRO)	SampT Batcl Analysis D Result 27	Fype: LC h ID: 30 Date: 3/ PQL 5.0	S 945 29/2017 SPK value 25.00	Tes F S SPK Ref Val 0	tCode: El RunNo: 4 SeqNo: 1 %REC 109	PA Method 1734 310272 LowLimit 76.4	8015D: Gaso Units: mg/k HighLimit 125	oline Rang (g %RPD	e RPDLimit	Qual

Qualifiers:

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

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30-Mar-17

WO#: 1703E00

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuc TEL: 505-345-3975 I Website: www.hal	tnalysis Laboratory 4901 Hawkins NE querque, NM 87109 FAX: 505-345-4107 lenvironmental.com	Sam	ole Log-In Cł	neck List
Client Name: BLAGG W	/ork Order Number:	1703E00		RcptNo:	1
Received by/date:	329/4		. <u> </u>		
Logged By: Lindsay Mangin 3/29	2017 7:15:00 AM	C	pady the go		
Completed By: Lindsay Mangin 3/29	2017 7:38:53 AM	C	+ Hugo		
Reviewed By: SRC 03/29/17					-
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >	0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly pre	eserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes	No 🗹	NA	
10.VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?		Yes	No 🗹 🗌		
12 Does nanenwork match hottle labels?		Yes 🗸	No 🗌	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)				(<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Cust	ody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🛄 .	Checked by:	
Special Handling (if applicable)					
16 Was client notified of all discrepancies with this of	rder?	Yes	No	NA 🔽	
Person Notified	Data C				
By Whom:		Amail Dhar			
Regarding:					
Client Instructions:				a an	
17. Additional remarks:					
19 Cooler Information					
Cooler Information Cooler No Temp °C Condition Seal In 1 1.3 Good Yes	tact Seal No S	eal Date Sig	ned By		
Page 1 of 1					

Client: BLABG ENGR. (BP AMERICA Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413 Phone #: (505) 320 - 1183	Turn-Around Time: $SAME-DAY$ I Standard Image: Name: $FIELDS$ A #1A Project #: $FIELDS$	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#: QA/QC Package: Standard Level 4 (Full Validation) Accreditation NELAP Other	Project Manager: JEFF BLAGE Sampler: JEFF BLAGE On Ice: XYes II No	+ TMB's (8021) + TPH (Gas only) RO / DRO / MRO) 18.1) 04.1) 04.1) 03.NO2,PO4,SO4) 5.8082 PCB's A) A) A) A)
Date Time Matrix Sample Request ID	Sample Temperature: /.3 Container Type and # Preservative Type HEAL No. 1703E00	BTEX + MTBE BTEX + MTBE BTEX + MTBE TPH 8015B (GI B20B (Method 5 B260B (VOA) B270 (Semi-VO B270 (Semi-VO Anir Bubbles (Y
3/28/17 0940 SOIL 95 BET 5-pt.cs-7	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	
Date: Time: Relinguished by: 28/17 040 441 Blogg Date: Time: Relinguished by: 28/17 1834 Musthe Walter	Received by: A Lat Jak Time J28/17 1040 Date Time Date Time 03/29/17 03/29/17 01/5	Remarks: BILL DIRECTLY TO BP CONTRET: STELE MOSKAL (VANCE HIXON VID: VHIXONEVBZ REFERENCE # 686

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