

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OIL CONS. DIV DIST. 3

JAN 20 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141
Revised August 8, 2011

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: Barrett A 010	Facility Type: Natural gas well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 3004526826

LOCATION OF RELEASE

Unit Letter O	Section 20	Township 31N	Range 09W	Feet from the 1,105	North/South Line South	Feet from the 1,735	East/West Line East	County: San Juan
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Latitude 36.879204° Longitude -107.799999°

NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank - 45 bbl	Date and Hour of Occurrence: none	Date and Hour of Discovery: none
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for BTEX and chloride below BGT closure standards. TPH exceeded the BGT closure standards, but remained below the spill and release guidelines with a site ranking of 10. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.* No action necessary. Final laboratory analysis determined no remedial action is required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Steve Moskal	Approval Date: <u>2/1/2017</u>	Expiration Date:
Title: Field Environmental Coordinator	Conditions of Approval:	Attached <input type="checkbox"/>
E-mail Address: steven.moskal@bp.com	<u>N/E 1703236847</u>	
Date: December 12, 2016	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004526826 TANK ID (if applicable): B
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FIELD REPORT: (circle one): <u>BGT CONFIRMATION</u> / RELEASE INVESTIGATION / OTHER:	PAGE #: 1 of 1
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SITE INFORMATION:	SITE NAME: BARRETT A # 10	DATE STARTED: 10/17/16
QUAD/UNIT: O SEC: 20 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NM	DATE FINISHED:	ENVIRONMENTAL SPECIALIST(S): NJV
1/4 - 1/4/FOOTAGE: 1,105'S / 1,735'E SW/SE LEASE TYPE: <u>FEDERAL</u> STATE / FEE / INDIAN	LEASE #: SF078336B PROD. FORMATION: PC CONTRACTOR: CROSSFIRE/STRIKE BP - C. PARKS	

REFERENCE POINT:	WELL HEAD (W.H.) GPS COORD.: 36.87937 X 107.80030 GL ELEV.: 6,273'	DISTANCE/BEARING FROM W.H.: 98.5', S52.5E
1) 45 BGT (SW/DB) - B	GPS COORD.: 36.879204 X 107.799999	DISTANCE/BEARING FROM W.H.:
2)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5' (45) - B SAMPLE DATE: 10/17/16 SAMPLE TIME: 1230 LAB ANALYSIS: 8015B/8021B/300.0 (CI)	NA	
2) SAMPLE ID: GRAB @ 8' - (beneath 45 BGT) SAMPLE DATE: 10/19/16 SAMPLE TIME: 1155 LAB ANALYSIS: 8015B	NA	
3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		
4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		

SOIL DESCRIPTION:	SOIL TYPE: <u>SAND</u> <u>SILTY SAND</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: DARK YELLOWISH ORANGE	PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
COHESION (ALL OTHERS): <u>NON COHESIVE</u> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE	DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> <u>FIRM</u> DENSE / VERY DENSE	HC ODOR DETECTED: YES <u>NO</u> EXPLANATION -
MOISTURE: DRY / <u>SLIGHTLY MOIST</u> MOIST / WET / SATURATED / SUPER SATURATED	ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION -
SAMPLE TYPE: <u>GRAB</u> <u>COMPOSITE</u> # OF PTS. 5	
DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION -	

SITE OBSERVATIONS:	LOST INTEGRITY OF EQUIPMENT: YES <u>NO</u> EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES <u>NO</u> EXPLANATION:	
EQUIPMENT SET OVER RECLAIMED AREA: <u>YES</u> <u>NO</u> EXPLANATION -	105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP 45 BGT LOCATION.
OTHER:	CONFIRMATION SAMPLE EXCEEDED BGT PERMIT CLOSURE FOR TPH. COLLECTED GRAB TANK AT SOUTHEAST QUADRANT & BENEATH NEWLY INSTALLED ABOVE-GRADE TANK BY ADVANCING HAND AUGER DIAGONALLY. NMOC D REP. NOT PRESENT TO WITNESS SAMPLING.
SOIL IMPACT DIMENSION ESTIMATION: <u>NA</u> ft. X <u>NA</u> ft. X <u>NA</u> ft. EXCAVATION ESTIMATION (Cubic Yards): <u>NA</u>	
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOC D TPH CLOSURE STD: 1,000 ppm	

SITE SKETCH	BGT Located : off / <u>on</u> site	PLOT PLAN circle: <u>attached</u>
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OVM CALIB. READ. = <u>NA</u> ppm	RF = 0.52
OVM CALIB. GAS = <u>NA</u> ppm	
TIME: <u>NA</u> am/pm	DATE: <u>NA</u>

MISCELL. NOTES	
WO:	REF #: P - 680
VID: VHIXONEVB2	
PJ #:	
Permit date(s): 06/02/10	
OCD Appr. date(s): 08/17/16	
Tank ID	OVM = Organic Vapor Meter ppm = parts per million
B	BGT Sidewalls Visible: Y / <u>(N)</u>
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
Magnetic declination: 10° E	

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

● & X - S.P.D.

NOTES: GOOGLE EARTH IMAGERY DATE: 3/16/2016.	ONSITE: 10/17/16, 10/19/16
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1610829

Date Reported: 10/19/2016

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 5' (45)-B

Project: BARRETT A #10

Collection Date: 10/17/2016 12:30:00 PM

Lab ID: 1610829-002

Matrix: SOIL

Received Date: 10/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/18/2016 11:35:53 AM	28137
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	10/18/2016 11:19:00 AM	28121
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	10/18/2016 11:19:00 AM	28121
Surr: DNOP	93.9	70-130		%Rec	1	10/18/2016 11:19:00 AM	28121
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/18/2016 10:24:09 AM	28094
Surr: BFB	86.3	68.3-144		%Rec	1	10/18/2016 10:24:09 AM	28094
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	10/18/2016 10:24:09 AM	28094
Toluene	ND	0.036		mg/Kg	1	10/18/2016 10:24:09 AM	28094
Ethylbenzene	ND	0.036		mg/Kg	1	10/18/2016 10:24:09 AM	28094
Xylenes, Total	ND	0.071		mg/Kg	1	10/18/2016 10:24:09 AM	28094
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/18/2016 10:24:09 AM	28094

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	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	P	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.

WO#: 1610829

19-Oct-16

Client: Blagg Engineering

Project: BARRETT A #10

Sample ID	MB-28137	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28137	RunNo:	38039					
Prep Date:	10/18/2016	Analysis Date:	10/18/2016	SeqNo:	1186061	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28137	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	28137	RunNo:	38039					
Prep Date:	10/18/2016	Analysis Date:	10/18/2016	SeqNo:	1186062	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P 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.

WO#: 1610829

19-Oct-16

Client: Blagg Engineering

Project: BARRETT A #10

Sample ID	MB-28121	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	28121	RunNo:	38007					
Prep Date:	10/18/2016	Analysis Date:	10/18/2016	SeqNo:	1184812	Units:	mg/Kg			
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								
Surr: DNOP	9.0		10.00		90.2	70	130			

Sample ID	LCS-28121	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	28121	RunNo:	38007					
Prep Date:	10/18/2016	Analysis Date:	10/18/2016	SeqNo:	1184829	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	62.6	124			
Surr: DNOP	4.1		5.000		81.9	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610829

19-Oct-16

Client: Blagg Engineering

Project: BARRETT A #10

Sample ID	MB-28094	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	28094	RunNo:	38022					
Prep Date:	10/17/2016	Analysis Date:	10/18/2016	SeqNo:	1185899	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	890		1000		88.6	68.3	144			

Sample ID	LCS-28094	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	28094	RunNo:	38022					
Prep Date:	10/17/2016	Analysis Date:	10/18/2016	SeqNo:	1185900	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	74.6	123			
Surr: BFB	960		1000		96.2	68.3	144			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610829

19-Oct-16

Client: Blagg Engineering

Project: BARRETT A #10

Sample ID	MB-28094	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 28094			RunNo: 38022					
Prep Date:	10/17/2016	Analysis Date: 10/18/2016			SeqNo: 1185924		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	1.0		1.000		102	80	120			

Sample ID	LCS-28094	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 28094			RunNo: 38022					
Prep Date:	10/17/2016	Analysis Date: 10/18/2016			SeqNo: 1185925		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	75.2	115			
Toluene	0.93	0.050	1.000	0	93.3	80.7	112			
Ethylbenzene	0.90	0.050	1.000	0	89.8	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	94.3	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P 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 |



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: **1610829**

RcptNo: **1**

Received by/date: **AT 10/18/16**

Logged By: **Anne Thorne**

10/18/2016 8:00:00 AM

Anne Thorne

Completed By: **Anne Thorne**

10/18/2016

Anne Thorne

Reviewed By: **AT**

10/18/16

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 $>0^{\circ}\text{C}$ 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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Client: **BLAGG ENGR. / BP AMERICA**Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: P.O. BOX 87

BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

|Turn-Around Time:

SAME
DAY

☐ Standard ☒ Rush

Project Name:

BARRETT A #10

Project #:

Project Manager:	
------------------	--

NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

[illegible]

Date: 10/17/16	Time: 1334	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 10/17/16	Time 1334
Date: 10/17/16	Time: 1840	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 10/18/16	Time 0800

Remarks:	<u>BILL DIRECTLY TO BP USING THE CIRCLED CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE:</u>		
VID:	Vance Hixon VHXONEVB2	Steve Moskal VMOS6HQFEC	John Ritchie VRITCJWFEC
Reference #	<u>P-680</u>		

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

Analytical Report

Lab Order 1610B01

Date Reported: 10/26/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** GRAB @ 8' -(beneath 45 BGT)**Project:** BARRETT A 10**Collection Date:** 10/19/2016 11:55:00 AM**Lab ID:** 1610B01-001**Matrix:** SOIL**Received Date:** 10/21/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/25/2016 10:50:44 AM	28237
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2016 10:50:44 AM	28237
Surr: DNOP	87.4	70-130		%Rec	1	10/25/2016 10:50:44 AM	28237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/25/2016 9:48:50 PM	28236
Surr: BFB	86.4	68.3-144		%Rec	1	10/25/2016 9:48:50 PM	28236

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	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	P	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.

WO#: 1610B01

26-Oct-16

Client: Blagg Engineering

Project: BARRETT A 10

Sample ID	LCS-28237	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	28237	RunNo:	38183					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1191886	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	62.6	124			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID	MB-28237	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	28237	RunNo:	38183					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1191887	Units:	mg/Kg			
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								
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610B01

26-Oct-16

Client: Blagg Engineering

Project: BARRETT A 10

Sample ID	MB-28236	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	28236	RunNo:	38202					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1192363	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	850		1000		85.0	68.3	144			

Sample ID	LCS-28236	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	28236	RunNo:	38202					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1192364	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	74.6	123			
Surr: BFB	950		1000		95.4	68.3	144			

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



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: 1610B01

RcptNo: 1

Received by/date:

LC 10/24/16

Logged By: Lindsay Mangin

10/21/2016 8:15:00 AM

[Signature]

Completed By: Lindsay Mangin

10/21/2016 2:23:18 PM

[Signature]

Reviewed By:

aj

10/24/16

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 $>0^{\circ}\text{C}$ 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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

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

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: BLAGG ENGR. / BP AMERICA		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____	
Mailing Address: P.O. BOX 87		Project Name: BARRETT A # 10	
BLOOMFIELD, NM 87413			
Phone #: (505) 632-1199			
email or Fax#:		Project #:	
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Project Manager: NELSON VELEZ	
Accreditation:		Sampler: NELSON VELEZ	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type) _____		Sample Temperature: _____	

[illegible]

www.hallenvironmental.com

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

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/19/16	2011	[Signature]	[Signature]	10/19/16	2011
Date:	Time:	Relinquished by:	Received by:	Date	Time
10/20/16	2048	[Signature]	[Signature]	10/20/16	0815

Remarks:	BILL DIRECTLY TO BP USING THE CIRCLED CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE;
----------	--

Vance Hixon
VID: VHIXONEVB2

Steve Moskal
VDRINKWJA1

Steve Moskal
VMOS6HQFEC

Reference #

P - 680

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

505-947-9900

BP AMERICA PRODUCTION COMPANY

BARRETT A 010

API 3004526826 LEASE NMSF078336B

1105 FSL 1735 FEL (O) SEC 20 T31N R9W

SAN JUAN COUNTY ELEV 6273

LAT 36° 52' 45.732"

LONG 107° 48' 1.116"

