

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

Form C-141  
Revised April 3, 2017

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 America Production Company	Contact	Erin Garifalos
Address	200 Energy Court, Farmington, NM 87401	Telephone No.	(832) 609-7048
Facility Name	ATLANTIC B LS 004A	Facility Type	Natural Gas Well

Surface Owner	Federal	Mineral Owner	Federal	API No.	3004523379
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	5	30N	10W	1,770	South	1,770	East	San Juan

Latitude 36.839172 Longitude -107.903863 NAD83

#### 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: n/a	Date and Hour of Discovery: n/a
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.\*

OIL CONS. DIV DIST. 3

DEC 22 2017

Describe Cause of Problem and Remedial Action Taken.\*

Impacted soils were discovered during the confirmation sampling. Soil analysis resulted for TPH, BTEX and chlorides with all but TPH below BGT closure standards. Following the spill and release guidelines, the site is ranked with a closure standard of 100 ppm TPH requiring no further action. Further, subsequent sampling at depths of 4' & 9' indicate BGT closure. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.\*

Roughly 10 cubic yards of soil were excavated with a backhoe and sampling was completed. Sampling results were non-detect. 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.

Signature: <i>erin garifalos</i>	OIL CONSERVATION DIVISION	
Printed Name: Erin Garifalos	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: 12/22/17	Expiration Date:
E-mail Address: erin.garifalos@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: December 14, 2017	Phone: (832) 609-7048	

\* Attach Additional Sheets If Necessary

#NCS 1735635350

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CLIENT: <b>BP</b>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	API #: <b>3004523379</b> TANK ID (if applicable): <b>A</b>
<b>FIELD REPORT:</b> (circle one): BGT CONFIRMATION / <u>RELEASE INVESTIGATION</u> / OTHER:		PAGE #: <b>1</b> of <b>1</b>
<b>SITE INFORMATION:</b> SITE NAME: <b>ATLANTIC B LS #4A</b> QUAD/UNIT: <b>J</b> SEC: <b>5</b> TWP: <b>30N</b> RNG: <b>10W</b> PM: <b>NM</b> CNTY: <b>SJ</b> ST: <b>NM</b> 1/4 - 1/4/FOOTAGE: <b>1,770'S / 1,770'E</b> <b>NW/SE</b> LEASE TYPE: <u>FEDERAL</u> / FEE / INDIAN LEASE #: <b>SF080917</b> PROD. FORMATION: <b>MV</b> CONTRACTOR: <b>BP - J. GONZALES</b>		DATE STARTED: <b>10/16/17</b> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST(S): <b>NJV</b>
<b>REFERENCE POINT:</b> WELL HEAD (W.H.) GPS COORD.: <b>36.83803 X 107.90334</b> GL ELEV.: <b>6,238'</b> 1) <b>95 BGT (SW/DB)</b> GPS COORD.: <b>36.839172 X 107.903863</b> DISTANCE/BEARING FROM W.H.: <b>152.5', N11.5W</b> 2) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____ 3) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____ 4) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____		
<b>SAMPLING DATA:</b> CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <b>HALL</b>		OVM READING (ppm)
1) SAMPLE ID: <b>1 @ 4' (95)</b> SAMPLE DATE: <b>10/16/17</b> SAMPLE TIME: <b>1135</b> LAB ANALYSIS: <b>8015B/8021B/300.0 (CI)</b> 2) SAMPLE ID: <b>1 @ 9' (95)</b> SAMPLE DATE: <b>10/16/17</b> SAMPLE TIME: <b>1148</b> LAB ANALYSIS: <b>8015B/8021B/300.0 (CI)</b> 3) SAMPLE ID: <b>1 @ 4A' (95)</b> SAMPLE DATE: <b>10/16/17</b> SAMPLE TIME: <b>1155</b> LAB ANALYSIS: <b>8015B/8021B/300.0 (CI)</b> 4) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ 5) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____		<b>401.5</b>  <b>0.0</b>  <b>0.0</b>  
<b>SOIL DESCRIPTION:</b> SOIL TYPE: <u>SAND</u> / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / <u>OTHER</u> <b>IMPORTED ROAD BASE BENEATH BGT</b> SOIL COLOR: <b>DARK YELLOWISH ORANGE TO BROWN</b> 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: <u>YES</u> / NO EXPLANATION - <b>DISCOLORED SOILS ONLY</b> MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / <u>WET</u> / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB / <u>COMPOSITE</u> # OF PTS. <b>5</b> ANY AREAS DISPLAYING WETNESS: <u>YES</u> / NO EXPLANATION - <b>IMPACTED AREA ONLY</b> DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <b>VARYING GRAYS TO BLACK IN WNW SIDEWALL QUADRANT AREA OF BGT ONLY (SEE SKETCH)</b>		
<b>SITE OBSERVATIONS:</b> LOST INTEGRITY OF EQUIPMENT: <u>YES</u> / NO EXPLANATION - <b>90° STEEL ELBOW FITTING ON INSPECTION PORT</b> APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> / NO EXPLANATION: <b>PHYSICALLY BY DISCOLORATION &amp; HYDROCARBON ODOR</b> EQUIPMENT SET OVER RECLAIMED AREA: <u>YES</u> / NO EXPLANATION - <b>105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION</b> OTHER: <b>NMOC D OR BLM REPS. NOT PRESENT TO WITNESS CONFIRMATION SAMPLING. IMPACTED SOILS DISCOVERED APPEARS ISOLATED &amp; VERY MINIMAL IN SIZE. RELEASE IS CATEGORIZED AS NON REPORTABLE BASED ON SOIL QUANTITY.</b> EXCAVATION DIMENSION ESTIMATION: <b>10</b> ft. X <b>4</b> ft. X <b>4</b> ft. EXCAVATION ESTIMATION (Cubic Yards): <b>10 ±</b> DEPTH TO GROUNDWATER: <b>&lt;100'</b> NEAREST WATER SOURCE: <b>&gt;1,000'</b> NEAREST SURFACE WATER: <b>&lt;1,000'</b> NMOC D TPH CLOSURE STD: <b>100</b> ppm		
<b>SITE SKETCH</b> BGT Located : off / <u>on</u> site PLOT PLAN circle: <u>attached</u>		
		OVM CALIB. READ. = <b>100.0</b> ppm RF=1.00 OVM CALIB. GAS = <b>100</b> ppm TIME: <b>9:00</b> am/pm DATE: <b>10/16/17</b>
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.		<b>MISCELL. NOTES</b> WO: REF #: <b>P-886</b> VID: <b>VHIXONEV11</b> PJ #: Permit date(s): <b>06/14/10</b> OCD Appr. date(s): <b>04/08/16</b> Tank ID: <b>A</b> OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: <u>Y</u> / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: <b>10° E</b>
NOTES: <b>GOOGLE EARTH IMAGERY DATE: 3/15/2015.</b> ONSITE: <b>10/16/17</b>		



## Analytical Report

Lab Order 1710879

Date Reported: 10/19/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1 @ 4' (95)

Project: ATLANTIC B LS #4A

Collection Date: 10/16/2017 11:35:00 AM

Lab ID: 1710879-001

Matrix: SOIL

Received Date: 10/17/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CJS
Chloride	ND	30		mg/Kg	20	10/17/2017 11:41:39 AM	34438
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	4300	970		mg/Kg	100	10/17/2017 10:34:23 AM	34435
Motor Oil Range Organics (MRO)	11000	4900		mg/Kg	100	10/17/2017 10:34:23 AM	34435
Surr: DNOP	0	70-130	S	%Rec	100	10/17/2017 10:34:23 AM	34435
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	38	4.0		mg/Kg	1	10/17/2017 10:15:30 AM	G46399
Surr: BFB	416	54-150	S	%Rec	1	10/17/2017 10:15:30 AM	G46399
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/17/2017 10:15:30 AM	B46399
Toluene	ND	0.040		mg/Kg	1	10/17/2017 10:15:30 AM	B46399
Ethylbenzene	ND	0.040		mg/Kg	1	10/17/2017 10:15:30 AM	B46399
Xylenes, Total	0.18	0.081		mg/Kg	1	10/17/2017 10:15:30 AM	B46399
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	10/17/2017 10:15:30 AM	B46399

**Impacted soils excavated & transported  
to BP's Crouch Mesa Facility**

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1710879

Date Reported: 10/19/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1A @ 4' (95)

Project: ATLANTIC B LS #4A

Collection Date: 10/16/2017 11:55:00 AM

Lab ID: 1710879-002

Matrix: SOIL

Received Date: 10/17/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CJS
Chloride	ND	30		mg/Kg	20	10/17/2017 11:54:04 AM	34438
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/17/2017 10:56:45 AM	34435
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/17/2017 10:56:45 AM	34435
Surr: DNOP	94.3	70-130		%Rec	1	10/17/2017 10:56:45 AM	34435
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/17/2017 11:02:38 AM	G46399
Surr: BFB	92.9	54-150		%Rec	1	10/17/2017 11:02:38 AM	G46399
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	10/17/2017 11:02:38 AM	B46399
Toluene	ND	0.032		mg/Kg	1	10/17/2017 11:02:38 AM	B46399
Ethylbenzene	ND	0.032		mg/Kg	1	10/17/2017 11:02:38 AM	B46399
Xylenes, Total	ND	0.063		mg/Kg	1	10/17/2017 11:02:38 AM	B46399
Surr: 4-Bromofluorobenzene	96.5	66.6-132		%Rec	1	10/17/2017 11:02:38 AM	B46399

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1710879

Date Reported: 10/19/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 2 @ 9' (95)

Project: ATLANTIC B LS #4A

Collection Date: 10/16/2017 11:48:00 AM

Lab ID: 1710879-003

Matrix: SOIL

Received Date: 10/17/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CJS
Chloride	ND	30		mg/Kg	20	10/17/2017 12:06:28 PM	34438
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/17/2017 11:18:45 AM	34435
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/17/2017 11:18:45 AM	34435
Surr: DNOP	95.0	70-130		%Rec	1	10/17/2017 11:18:45 AM	34435
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/17/2017 11:26:11 AM	G46399
Surr: BFB	91.3	54-150		%Rec	1	10/17/2017 11:26:11 AM	G46399
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	10/17/2017 11:26:11 AM	B46399
Toluene	ND	0.039		mg/Kg	1	10/17/2017 11:26:11 AM	B46399
Ethylbenzene	ND	0.039		mg/Kg	1	10/17/2017 11:26:11 AM	B46399
Xylenes, Total	ND	0.078		mg/Kg	1	10/17/2017 11:26:11 AM	B46399
Surr: 4-Bromofluorobenzene	95.2	66.6-132		%Rec	1	10/17/2017 11:26:11 AM	B46399

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



[illegible]

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.



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710879

19-Oct-17

Client: Blagg Engineering  
Project: ATLANTIC B LS #4A

Sample ID	MB-34438	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	34438	RunNo:	46401					
Prep Date:	10/17/2017	Analysis Date:	10/17/2017	SeqNo:	1479260	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-34438	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	34438	RunNo:	46401					
Prep Date:	10/17/2017	Analysis Date:	10/17/2017	SeqNo:	1479261	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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                                    |
| PQL Practical Quantitative Limit                        | 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#: 1710879

19-Oct-17

Client: Blagg Engineering  
Project: ATLANTIC B LS #4A

Sample ID	LCS-34435	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	34435	RunNo:	46391					
Prep Date:	10/17/2017	Analysis Date:	10/17/2017	SeqNo:	1478054	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	73.2	114			
Surr: DNOP	4.0		5.000		79.3	70	130			

Sample ID	MB-34435	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	34435	RunNo:	46391					
Prep Date:	10/17/2017	Analysis Date:	10/17/2017	SeqNo:	1478055	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	9.3		10.00		93.0	70	130			

## 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
PQL Practical Quantitative Limit	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#: 1710879

19-Oct-17

Client: Blagg Engineering  
Project: ATLANTIC B LS #4A

Sample ID <b>RB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G46399</b>		RunNo: <b>46399</b>							
Prep Date:	Analysis Date: <b>10/17/2017</b>		SeqNo: <b>1478821</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.3	15	316			

Sample ID <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G46399</b>		RunNo: <b>46399</b>							
Prep Date:	Analysis Date: <b>10/17/2017</b>		SeqNo: <b>1478822</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		107	15	316			

## 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
PQL Practical Quantitative Limit	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#: 1710879

19-Oct-17

Client: Blagg Engineering  
Project: ATLANTIC B LS #4A

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B46399	RunNo:	46399					
Prep Date:		Analysis Date:	10/17/2017	SeqNo:	1478842	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		101	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B46399	RunNo:	46399					
Prep Date:		Analysis Date:	10/17/2017	SeqNo:	1478843	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

## 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
PQL Practical Quantitative Limit	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: 1710879

RcptNo: 1

Received By: Anne Thorne

10/17/2017 6:50:00 AM

*Anne Thorne*

Completed By: Anne Thorne

10/17/2017 7:35:17 AM

*Anne Thorne*

Reviewed By: *See 10/17/17*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.0	Good	Yes			