

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

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 America Production Company	Contact: Courtney Cochran
Address: 200 Energy Ct. Farmington, NM 87401	Telephone No.: 505-326-9457
Facility Name: Florance 027S CDP	Facility Type: Natural Gas Well and Delivery Point

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3004533130
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LOCATION OF RELEASE

Unit Letter L	Section 26	Township 29N	Range 09W	Feet from the 1670	North/South Line South	Feet from the 990	East/West Line West	County: San Juan
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Latitude 36.69412 Longitude 107.75545

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 56 bbl	Volume Recovered: none
Source of Release	Date and Hour of Occurrence: 9/15/2013	Date and Hour of Discovery: 9/16/2013
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - NMOCD	
By Whom?	Date and Hour: noon - 9/16/2013	
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.*

RCVD JAN 17 '14
OIL CONS. DIV.
DIST. 3

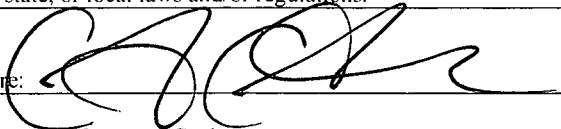
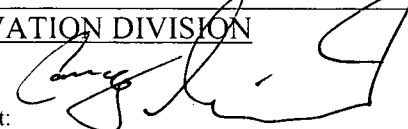
Describe Cause of Problem and Remedial Action Taken.*

Due to flooding rains rainwater filled and overflowed three BGT's on location. The location was shut-in and the BGT's were pulled down. In mid-October 2013 this location along with the Florance 27 which is on the same well pad underwent major modification with the BGT's being pulled out and LPT's being installed. With the BGT closure the risk associated with the flooding of these well locations and associated BGT's has been reduced. Copies of laboratory analysis associated with the BGT closures are included with this report to demonstrate that no associated soil or water contamination occurred subsequent to the storm event in September of 2013.

Describe Area Affected and Cleanup Action Taken.*

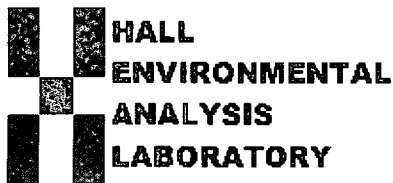
Produced water diluted with rainwater and moved along with floods. BGT's were pulled down with remaining fluid being disposed of. Subsequently LPT's were installed to comply with NMAC regulations and risk associated with flooding BGT's reduced.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Courtney Cochran	Approved by Environmental Specialist: 	
Title: Field Environmental Advisor	Approval Date: 5/8/15	Expiration Date:
E-mail Address: Courtney.Cochran@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/15/2014 Phone: 505-326-9457	Since this is a Flood Event IF ANY contamination Is Found IN Future Events AT Site BP will Handle it Appropriately.	

* Attach Additional Sheets If Necessary

#N5K1401431049



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

October 29, 2013

Nelson Velez
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX:

RCVD JAN 17 '14
OIL CONS. DIV.
DIST. 3

RE: Florance #27

OrderNo.: 1310951

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/19/2013 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 qualifiers 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1310951**Date Reported: **10/29/2013****CLIENT:** Blagg Engineering**Client Sample ID:** 4PC -SW @ 2'-3' (95)-B**Project:** Florance #27**Collection Date:** 10/17/2013 1:00:00 PM**Lab ID:** 1310951-001**Matrix:** SOIL**Received Date:** 10/19/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2013 1:49:52 PM	9947
Surr: DNOP	102	66-131		%REC	1	10/23/2013 1:49:52 PM	9947
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	10	1.5		mg/Kg	1	10/22/2013 12:19:09 PM	9956
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/23/2013 6:07:06 AM	9929
Toluene	ND	0.048		mg/Kg	1	10/23/2013 6:07:06 AM	9929
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2013 6:07:06 AM	9929
Xylenes, Total	ND	0.095		mg/Kg	1	10/23/2013 6:07:06 AM	9929
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	10/23/2013 6:07:06 AM	9929
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	1	10/23/2013 6:07:06 AM	9929
Surr: Dibromofluoromethane	108	70-130		%REC	1	10/23/2013 6:07:06 AM	9929
Surr: Toluene-d8	93.5	70-130		%REC	1	10/23/2013 6:07:06 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2013 6:07:06 AM	9929
Surr: BFB	98.0	70-130		%REC	1	10/23/2013 6:07:06 AM	9929
EPA METHOD 418.1: TPH							Analyst: BCN
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	10/23/2013	9948

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
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310951

Date Reported: 10/29/2013

CLIENT: Blagg Engineering

Client Sample ID: GW @ 5' (95)-B

Project: Florance #27

Collection Date: 10/17/2013 12:55:00 PM

Lab ID: 1310951-002

Matrix: AQUEOUS

Received Date: 10/19/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	46	5.0		mg/L	10	10/21/2013 8:38:42 PM	R14248
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/26/2013 5:28:33 AM	R14372
Toluene	ND	1.0		µg/L	1	10/26/2013 5:28:33 AM	R14372
Ethylbenzene	ND	1.0		µg/L	1	10/26/2013 5:28:33 AM	R14372
Xylenes, Total	ND	2.0		µg/L	1	10/26/2013 5:28:33 AM	R14372
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%REC	1	10/26/2013 5:28:33 AM	R14372
Surr: 4-Bromofluorobenzene	92.2	70-130		%REC	1	10/26/2013 5:28:33 AM	R14372
Surr: Dibromofluoromethane	96.5	70-130		%REC	1	10/26/2013 5:28:33 AM	R14372
Surr: Toluene-d8	91.8	70-130		%REC	1	10/26/2013 5:28:33 AM	R14372

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310951

Date Reported: 10/29/2013

CLIENT: Blagg Engineering

Client Sample ID: 4PC -SW @ 2'-3' (95)-C

Project: Florance #27

Collection Date: 10/17/2013 12:45:00 PM

Lab ID: 1310951-003

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2013 2:11:59 PM	9947
Surr: DNOP	100	66-131		%REC	1	10/23/2013 2:11:59 PM	9947
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	2.3	1.5		mg/Kg	1	10/22/2013 1:46:00 PM	9956
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	10/23/2013 6:35:39 AM	9929
Toluene	ND	0.046		mg/Kg	1	10/23/2013 6:35:39 AM	9929
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2013 6:35:39 AM	9929
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2013 6:35:39 AM	9929
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	10/23/2013 6:35:39 AM	9929
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/23/2013 6:35:39 AM	9929
Surr: Dibromofluoromethane	117	70-130		%REC	1	10/23/2013 6:35:39 AM	9929
Surr: Toluene-d8	91.9	70-130		%REC	1	10/23/2013 6:35:39 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2013 6:35:39 AM	9929
Surr: BFB	103	70-130		%REC	1	10/23/2013 6:35:39 AM	9929
EPA METHOD 418.1: TPH							Analyst: BCN
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	10/23/2013	9948

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310951

Date Reported: 10/29/2013

CLIENT: Blagg Engineering

Client Sample ID: GW @ 5' (95)-c

Project: Florance #27

Collection Date: 10/17/2013 12:35:00 PM

Lab ID: 1310951-004

Matrix: AQUEOUS

Received Date: 10/19/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	33	5.0		mg/L	10	10/21/2013 9:03:30 PM	R14248
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/26/2013 6:00:11 AM	R14372
Toluene	ND	1.0		µg/L	1	10/26/2013 6:00:11 AM	R14372
Ethylbenzene	ND	1.0		µg/L	1	10/26/2013 6:00:11 AM	R14372
Xylenes, Total	ND	2.0		µg/L	1	10/26/2013 6:00:11 AM	R14372
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%REC	1	10/26/2013 6:00:11 AM	R14372
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	10/26/2013 6:00:11 AM	R14372
Surr: Dibromofluoromethane	100	70-130		%REC	1	10/26/2013 6:00:11 AM	R14372
Surr: Toluene-d8	89.0	70-130		%REC	1	10/26/2013 6:00:11 AM	R14372

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: MB-9956	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 9956	RunNo: 14283
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 409634 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-9956	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 9956	RunNo: 14283
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 409635 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.1 90 110

Sample ID: 1310951-001AMS	SampType: MS	TestCode: EPA Method 300.0: Anions
Client ID: 4PC -SW @ 2'-3' (95)	Batch ID: 9956	RunNo: 14283
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 409641 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	25	1.5 15.00 9.965 101 58.8 109

Sample ID: 1310951-001AMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions
Client ID: 4PC -SW @ 2'-3' (95)	Batch ID: 9956	RunNo: 14283
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 409642 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	26	1.5 15.00 9.965 105 58.8 109 2.56 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408497 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	8.0	0.50	8.000	0	100	90	110			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408499 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408500 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	100	90	110			

Sample ID: A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408509 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	103	90	110			

Sample ID: A4	SampType: CCV_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408521 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.9	90	110			

Sample ID: A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408533 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.8	0.50	8.000	0	97.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408545	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	104	90	110			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408547	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408548	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.4	90	110			

Sample ID: A4	SampType: CCV_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/21/2013	SeqNo: 408557	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.1	90	110			

Sample ID: A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/22/2013	SeqNo: 408568	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	104	90	110			

Sample ID: A4	SampType: CCV_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R14248	RunNo: 14248								
Prep Date:	Analysis Date: 10/22/2013	SeqNo: 408575	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.9	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: MB-9948	SampType: MBLK	TestCode: EPA Method 418.1: TPH								
Client ID: PBS	Batch ID: 9948	RunNo: 14277								
Prep Date: 10/22/2013	Analysis Date: 10/23/2013	SeqNo: 409560			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID: LCS-9948	SampType: LCS	TestCode: EPA Method 418.1: TPH								
Client ID: LCSS	Batch ID: 9948	RunNo: 14277								
Prep Date: 10/22/2013	Analysis Date: 10/23/2013	SeqNo: 409561			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	106	80	120			

Sample ID: LCSD-9948	SampType: LCSD	TestCode: EPA Method 418.1: TPH								
Client ID: LCSS02	Batch ID: 9948	RunNo: 14277								
Prep Date: 10/22/2013	Analysis Date: 10/23/2013	SeqNo: 409562			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	103	80	120	2.51	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: MB-9947	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 9947	RunNo: 14241								
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 408483			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		95.2	66	131			

Sample ID: LCS-9947	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 9947	RunNo: 14241								
Prep Date: 10/22/2013	Analysis Date: 10/22/2013	SeqNo: 408493			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	95.2	77.1	128			
Surr: DNOP	4.5		5.000		89.6	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: mb-9929	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409097	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Sample ID: mb-9929	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409512	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Sample ID: LCS-9929	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409534	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	70	130			
Toluene	1.0	0.050	1.000	0	99.8	69.9	139			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.2	0.10	3.000	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: 5ml rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R14372	RunNo: 14372								
Prep Date:	Analysis Date: 10/25/2013	SeqNo: 412568 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.1	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.6	70	130			
Surr: Toluene-d8	9.1		10.00		91.3	70	130			

Sample ID: 100nglcs/200ngacac	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R14372	RunNo: 14372								
Prep Date:	Analysis Date: 10/25/2013	SeqNo: 412569 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	22	1.0	20.00	0	110	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.0	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310951

29-Oct-13

Client: Blagg Engineering

Project: Florance #27

Sample ID: mb-9929	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409104			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	510		500.0		102	70	130			

Sample ID: mb-9929	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409535			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	510		500.0		102	70	130			

Sample ID: LCS-9929	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 9929	RunNo: 14255								
Prep Date: 10/21/2013	Analysis Date: 10/22/2013	SeqNo: 409536			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	80	120			
Surr: BFB	450		500.0		90.2	70	130			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1310951

RcptNo: 1

Received by/date:	<i>AF</i>	<i>10/19/13</i>
Logged By:	Michelle Garcia	10/19/2013 11:00:00 AM <i>Michelle Garcia</i>
Completed By:	Michelle Garcia	10/21/2013 8:46:50 AM <i>Michelle Garcia</i>
Reviewed By:	<i>[Signature]</i>	<i>10/21/13</i>

Chain of Custody

- Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- 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 ☐

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

Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

- Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			

Chain-of-Custody Record

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:

☒ Standard ☐ Rush

Project Name:

FLORANCE # 27

Project #:

Project Manager:

NELSON VELEZ

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: **4.0**



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)	Grab sample	4 pt. composite sample
10/17/13	1300	SOIL	4PC - SW @ 2'-3' (95)-B	4 oz. - 1	Cool	-001	✓		✓	✓							✓		✓
10/17/13	1255	WATER	GW @ 5' (95)-B	40 ml VOA - 2	HCl & Cool	-002	✓												✓
10/17/13	1255	WATER	GW @ 5' (95)-B	500 ml - 1	Cool	-002											✓		✓
10/17/13	1245	SOIL	4PC - SW @ 2'-3' (95)-C	4 oz. - 1	Cool	-003	✓		✓	✓							✓		✓
10/17/13	1235	WATER	GW @ 5' (95)-C	40 ml VOA - 2	HCl & Cool	-004	✓												✓
10/17/13	1235	WATER	GW @ 5' (95)-C	500 ml - 1	Cool	-004											✓		✓

Date:

Time:

Relinquished by:

Received by:

Date Time

Remarks:

Date:

Time:

Relinquished by:

Received by:

Date Time

BILL DIRECTLY TO BP:

Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: **N15165390** Paykey: **ZEVH01BGT2**

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 noted on the analytical report