

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

AUG 17 2016

Form C-141
Revised August 8, 2011

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: Steve Moskal	
Address: 200 Energy Court, Farmington, NM 87401		Telephone No.: 505-326-9497	
Facility Name: Gallegos Canyon Unit 211		Facility Type: Natural Gas Well	
Surface Owner: Fee	Mineral Owner: Fee	API No. 30-045-11651	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	32	29N	12W	1,650	North	1,650	East	San Juan

Latitude: 36.6858 Longitude: -108.11917

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 6.38	Volume Recovered none
Source of Release: 2" poly pipeline	Date and Hour of Occurrence: August 2, 2016	Date and Hour of Discovery: August 2, 2016 11:20 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.	

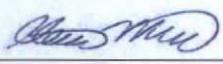
If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.* A field technician found a water stain on the active pipeline right of way. The water appeared to have moved from the source of the release, down the lease road. All fluid released remained to the area of current activities and disturbances. The pipeline was shut in and the area of impact was removed via vac-truck.

Describe Area Affected and Cleanup Action Taken* The produced water travelled approximately 186' to the north of the pipeline release point with an average width of 2-3'. The area of impact was remediated via excavation using a vac-truck. Soil samples collected at an average depth of 0.5-1.0' below the area of impact determined effective removal of contaminants. Laboratory analysis and site figure are included.

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: 8/22/16	Expiration Date:
Title: Field Environmental Coordinator	Conditions of Approval:	
E-mail Address: steven.moskal@bp.com	Attached <input type="checkbox"/>	
Date: August 15, 2016	Phone: (505) 326-9497	

* Attach Additional Sheets If Necessary

NCS 16235 42 776

21

BP - GCU 211/307 Pipeline Release

Point of Release: 36.685774, -108.121784

Imagery date: 3/15/2015

Point 7 of 7 - 186 ft. from POR

Point 6 of 7 - 156 ft. from POR

Point 5 of 7 - 134 ft. from POR

Point 4 of 7 - 106 ft. from POR

Point 3 of 7 - 77 ft. from POR

Point 2 of 7 - 48 ft. from POR

Point 1 of 7 - 22 ft. from POR

Point of Release (POR)

7 point composite sample @ 0.5 - 1.5 ft. below grade
(beneath impacted soils)

Date: 08/02/2016; Time - 1615

Soil mostly dark yellowish orange to brown
sand to silty sand, dry to slightly moist

Google earth

©2016 Google

FIGURE 1



100 ft

BP - GCU 211/307 Pipeline Release

Point of Release: 36.685774, -108.121784

Imagery date: 3/15/2015

Point 1 of 7 - 22 ft. from POR

5 point composite sample @ ground surface
(impacted soils)

(X - sample point designation)

Date: 08/02/2016; Time - 1525.

Soil mostly dark yellowish orange to brown
sand to silty sand, moist to wet

Point of Release (POR)

FIGURE 2



20 ft

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: **48 HR.**

Standard Rush

Project Name: _____

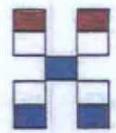
Project #: **GCN #211 / #307
PIPELINE RELEASE**

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice: Yes No

Sample Temperature: **1,7**



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 + TMBs (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (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	#pt. composite sample	Air Bubbles (Y or N)
8/2/06	1525	SOIL	5 PC @ GROUND SURFACE (IMPACTED)	4oz.-1	COOL	1608127 -001	✓	✓										✓		7	
8/2/16	1615	SOIL	7 PC @ 0.5'-1.5' BELOW GRADE	4oz.-1	COOL	-002	✓	✓										✓		7	

Date: 8/2/16 Time: 1656 Relinquished by: *[Signature]* Received by: *Christine Walker* Date: 8/2/16 Time: 1656

Date: 8/2/16 Time: 1834 Relinquished by: *Christine Walker* Received by: *[Signature]* Date: 08/03/16 Time: 0720

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

Vance Hixon Steve Moskal John Ritchie
 VHIXONEVB2 VMOS6HQFEC VRITCJWFEC

WORK ORDER Reference # **N15706743**

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.



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

August 04, 2016

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

RE: GCU #211/#307 Pipeline Release

OrderNo.: 1608127

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/3/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SPC@Ground Surface (Impacted)

Project: GCU #211/#307 Pipeline Release

Collection Date: 8/2/2016 3:25:00 PM

Lab ID: 1608127-001

Matrix: MEOH (SOIL)

Received Date: 8/3/2016 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9800	300		mg/Kg	200	8/3/2016 4:52:13 PM	26766
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/3/2016 10:30:49 AM	26760
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/3/2016 10:30:49 AM	26760
Surr: DNOP	99.1	70-130		%Rec	1	8/3/2016 10:30:49 AM	26760
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	12	3.3		mg/Kg	1	8/3/2016 10:42:55 AM	26741
Surr: BFB	119	49.4-163		%Rec	1	8/3/2016 10:42:55 AM	26741
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	8/3/2016 10:42:55 AM	26741
Toluene	0.034	0.033		mg/Kg	1	8/3/2016 10:42:55 AM	26741
Ethylbenzene	ND	0.033		mg/Kg	1	8/3/2016 10:42:55 AM	26741
Xylenes, Total	0.087	0.066		mg/Kg	1	8/3/2016 10:42:55 AM	26741
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	8/3/2016 10:42:55 AM	26741

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** 7PC@0.5'-1.5' Below Grade
Project: GCU #211/#307 Pipeline Release **Collection Date:** 8/2/2016 4:15:00 PM
Lab ID: 1608127-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2016 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	250	30		mg/Kg	20	8/3/2016 11:29:34 AM	26766
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	21	9.5		mg/Kg	1	8/3/2016 10:52:45 AM	26760
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/3/2016 10:52:45 AM	26760
Surr: DNOP	90.2	70-130		%Rec	1	8/3/2016 10:52:45 AM	26760
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/3/2016 11:06:28 AM	26741
Surr: BFB	97.5	49.4-163		%Rec	1	8/3/2016 11:06:28 AM	26741
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	8/3/2016 11:06:28 AM	26741
Toluene	ND	0.035		mg/Kg	1	8/3/2016 11:06:28 AM	26741
Ethylbenzene	ND	0.035		mg/Kg	1	8/3/2016 11:06:28 AM	26741
Xylenes, Total	ND	0.070		mg/Kg	1	8/3/2016 11:06:28 AM	26741
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	8/3/2016 11:06:28 AM	26741

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#: 1608127

04-Aug-16

Client: Blagg Engineering
Project: GCU #211/#307 Pipeline Release

Sample ID	MB-26766	SampType:	mbk		TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	26766		RunNo:	36217					
Prep Date:	8/3/2016	Analysis Date:	8/3/2016		SeqNo:	1121709	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-26766	SampType:	lcs		TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	26766		RunNo:	36217					
Prep Date:	8/3/2016	Analysis Date:	8/3/2016		SeqNo:	1121710	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.5	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 |
| 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#: 1608127

04-Aug-16

Client: Blagg Engineering
Project: GCU #211/#307 Pipeline Release

Sample ID	LCS-26760	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	26760	RunNo:	36186					
Prep Date:	8/3/2016	Analysis Date:	8/3/2016	SeqNo:	1120950	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.1	62.6	124			
Surr: DNOP	4.5		5.000		90.1	70	130			

Sample ID	MB-26760	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	26760	RunNo:	36186					
Prep Date:	8/3/2016	Analysis Date:	8/3/2016	SeqNo:	1120951	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	8.5		10.00		85.0	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#: 1608127
 04-Aug-16

Client: Blagg Engineering
Project: GCU #211/#307 Pipeline Release

Sample ID MB-26741	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 26741		RunNo: 36191							
Prep Date: 8/2/2016	Analysis Date: 8/3/2016		SeqNo: 1121472		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	960		1000		96.4	49.4	163			

Sample ID LCS-26741	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 26741		RunNo: 36191							
Prep Date: 8/2/2016	Analysis Date: 8/3/2016		SeqNo: 1121473		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	80	120			
Surr: BFB	1100		1000		106	49.4	163			

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#: 1608127
 04-Aug-16

Client: Blagg Engineering
Project: GCU #211/#307 Pipeline Release

Sample ID MB-26741	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 26741		RunNo: 36191							
Prep Date: 8/2/2016	Analysis Date: 8/3/2016		SeqNo: 1121479		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	0.91		1.000		91.5	80	120			

Sample ID LCS-26741	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 26741		RunNo: 36191							
Prep Date: 8/2/2016	Analysis Date: 8/3/2016		SeqNo: 1121480		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.3	123			
Toluene	0.98	0.050	1.000	0	97.6	80	124			
Ethylbenzene	1.0	0.050	1.000	0	101	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	100	83.9	122			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	80	120			

Qualifiers:

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



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1608127**

RcptNo: **1**

Received by/date: *[Signature]*
 Logged By: **Lindsay Mangin** *08/03/16* **8/3/2016 7:20:00 AM**
 Completed By: **Lindsay Mangin** **8/3/2016 7:53:54 AM**
 Reviewed By: **IO** *08/03/16*

[Signature]
[Signature]

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 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 # of preserved bottles checked for pH: (**<2 or >12 unless noted**)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
- 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 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	1.7	Good	Yes			

Chain-of-Custody Record

Turn-Around Time: 48 HR.
 Standard Rush



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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

Mailing Address: **P.O. BOX 87**
BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

Email or Fax#:

A/QC Package:
 Standard Level 4 (Full Validation)

Accreditation:
 NELAP Other _____

EDD (Type): _____

Project Name: _____

Project #: **GCN #211 / #307**
PIPELINE RELEASE

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice: Yes No

Sample Temperature: **1.7**

Analysis Request

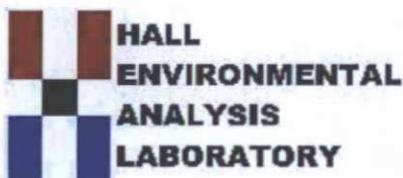
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 500.1)	Grab sample	#pt. composite sample	Air Bubbles (Y or N)
12/16	1525	SOIL	5PC @ GROUND SURFACE (IMPACTED)	4oz.-1	COOL	1608127 -001	✓	✓										✓		1	
12/16	1615	SOIL	7PC @ 0.5'-1.5' BELOW GROUND	4oz.-1	COOL	-002	✓	✓										✓		1	

Site: 12/16 Time: 1656 Relinquished by: *[Signature]* Received by: *Christopher Walters* Date: 8/2/16 Time: 1656

Site: 2/16 Time: 1834 Relinquished by: *Christopher Walters* Received by: *[Signature]* Date: 08/03/16 Time: 0720

Remarks: **BILL DIRECTLY TO BP USING THE CIRCLED CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE:**
 Vance Hixon (VHIXONEVB2) Steve Moskal (VMOS6HQFEC) John Ritchie (VRITCJWFEC)
 Reference #: **N15706743**

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.



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

August 12, 2016

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

RE: GCU 211/307 Pipeline Release

OrderNo.: 1608497

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/9/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3pc @ Source 6'-7' Below Grab

Project: GCU 211/307 Pipeline Release

Collection Date: 8/8/2016 2:00:00 PM

Lab ID: 1608497-001

Matrix: MEOH (SOIL)

Received Date: 8/9/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	770	30		mg/Kg	20	8/10/2016 3:48:03 AM	26873
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/10/2016 12:36:03 PM	26867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2016 12:36:03 PM	26867
Surr: DNOP	86.1	70-130		%Rec	1	8/10/2016 12:36:03 PM	26867
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/10/2016 1:01:24 PM	26858
Surr: BFB	109	68.3-144		%Rec	1	8/10/2016 1:01:24 PM	26858
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	8/10/2016 1:01:24 PM	26858
Toluene	ND	0.033		mg/Kg	1	8/10/2016 1:01:24 PM	26858
Ethylbenzene	ND	0.033		mg/Kg	1	8/10/2016 1:01:24 PM	26858
Xylenes, Total	ND	0.066		mg/Kg	1	8/10/2016 1:01:24 PM	26858
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	8/10/2016 1:01:24 PM	26858

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#: 1608497
 12-Aug-16

Client: Blagg Engineering
Project: GCU 211/307 Pipeline Release

Sample ID	MB-26873	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	26873	RunNo:	36358					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126271	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-26873	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	26873	RunNo:	36358					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126272	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

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#: 1608497

12-Aug-16

Client: Blagg Engineering
Project: GCU 211/307 Pipeline Release

Sample ID	LCS-26867	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	26867	RunNo:	36347					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126001	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.2	62.6	124			
Surr: DNOP	4.7		5.000		93.9	70	130			

Sample ID	MB-26867	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	26867	RunNo:	36347					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126002	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	9.6		10.00		95.6	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 |
| 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#: 1608497
 12-Aug-16

Client: Blagg Engineering
Project: GCU 211/307 Pipeline Release

Sample ID MB-26858	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 26858		RunNo: 36367							
Prep Date: 8/9/2016	Analysis Date: 8/10/2016		SeqNo: 1126685				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	1100		1000		110	68.3	144			

Sample ID LCS-26858	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 26858		RunNo: 36367							
Prep Date: 8/9/2016	Analysis Date: 8/10/2016		SeqNo: 1126686				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	110	80	120			
Surr: BFB	1200		1000		122	68.3	144			

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#: 1608497

12-Aug-16

Client: Blagg Engineering
Project: GCU 211/307 Pipeline Release

Sample ID	MB-26858	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	26858	RunNo:	36367					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126698	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	1.1		1.000		106	80	120			

Sample ID	LCS-26858	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	26858	RunNo:	36367					
Prep Date:	8/9/2016	Analysis Date:	8/10/2016	SeqNo:	1126699	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	75.3	123			
Toluene	1.0	0.050	1.000	0	103	80	124			
Ethylbenzene	1.1	0.050	1.000	0	114	82.8	121			
Xylenes, Total	3.3	0.10	3.000	0	110	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1608497**

RcptNo: **1**

Received by/date:

AJ

08/09/16

Logged By: **Ashley Gallegos**

8/9/2016 8:00:00 AM

AJ

Completed By: **Ashley Gallegos**

8/9/2016 9:41:33 AM

AJ

Reviewed By:

mg

08/09/16

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° 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? Yes No # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No 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	1.8	Good	Yes			

