OIL CONS. DIV DIST. 3

DEC 21 2015

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 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	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Gallegos Canyon Unit 167E	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004524862

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
H	18	28N	11W	1,000	North	800	East	

Latitude 36.651817° **Longitude** -108.038815°

NATURE OF RELEASE

Type of Release: condensate and produced water	Volume of Release: 63 bbl condensate/8.2 bbl produced water	Volume Recovered: none
Source of Release: Confirmed corrosion of a 300 bbl production tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: November 9, 2015 at 3:45PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? A phone call to Cory Smith	
By Whom? Steve Moskal of BP	Date and Hour: 11/9/2015 at 3:50 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Tech found stain on ground around condensate tank. Tank previously gauged within the last month. Hole found near the bottom of the tank. Estimated volumes of loss based on recent gauging data. The tank was removed from service and will be replaced. The area of impacts was excavated to practical extents.

Describe Area Affected and Cleanup Action Taken.* The excavated area measured approximately 40'x40'x4-8' in depth. Approximately 530 cubic yards were transported offsite for landfarm treatment; a complete C-138 is attached. Sandstone bedrock was encountered at the base of the excavation and sloped downward from north to south. Initial closure sampling indicated the lateral extents of the excavation were determined with laboratory results below the spill and release guidelines. The results of the laboratory analysis for the sample collected from the base of the excavation determined the sandstone bedrock had concentration of TPH and BTEX above the guidelines. A potassium permanganate oxidizer was applied to the base of the excavation and subsequently sampled. The laboratory results of the subsequent sampling determined the concentration of the BTEX elements fell below the guideline and the TPH concentration is within an acceptable concentration for non-volatile range organics (DRO). The excavation was then backfilled and remains within the active well pad. Attached is a field report and laboratory reports documenting each sampling event.

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: Steve Moskal	Approved by Environmental Specialist:
Title: Field Environmental Coordinator	Approval Date: 12/30/2015 Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: — Attached ☐
Date: December 15, 2015 Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

nCS1531357297

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BP America: GCU 167E
(H) Sec 18 – T28N – R11W
San Juan County, New Mexico

Summary Record of Impact Remediation

November 9, 2015 Soils impacted with hydrocarbons discovered from leak of approximately 63 barrels condensate from 300 barrel AGT. Loss resulted from corrosion pinhole at base of tank. Leak contained within earthen containment berm.

Site Closure Standard Determined at 1,000 ppm TPH based on:

Horizontal Distance USGS Blue Line on Topo sheet = 520 feet south (10 points)
Nearest Water Well (POD# SJ 02916) = 1,850 feet (0 points)
Depth to Groundwater based on POD # SJ 02916 >200 feet (0 points)

(Note: On Dec 1, 2015 NMOCD evaluated horizontal distance to nearest surface drainage at <200')
(Blagg Engineering, Inc conducted an independent review of that drainage and found the nearest point with a defined bed width greater than 10' to be approximately 306 feet down-gradient of remedial dig. See Attached Figure for measurement points)

November 23, 2015 Begin remediation of site by excavation of impacts with trackhoe.

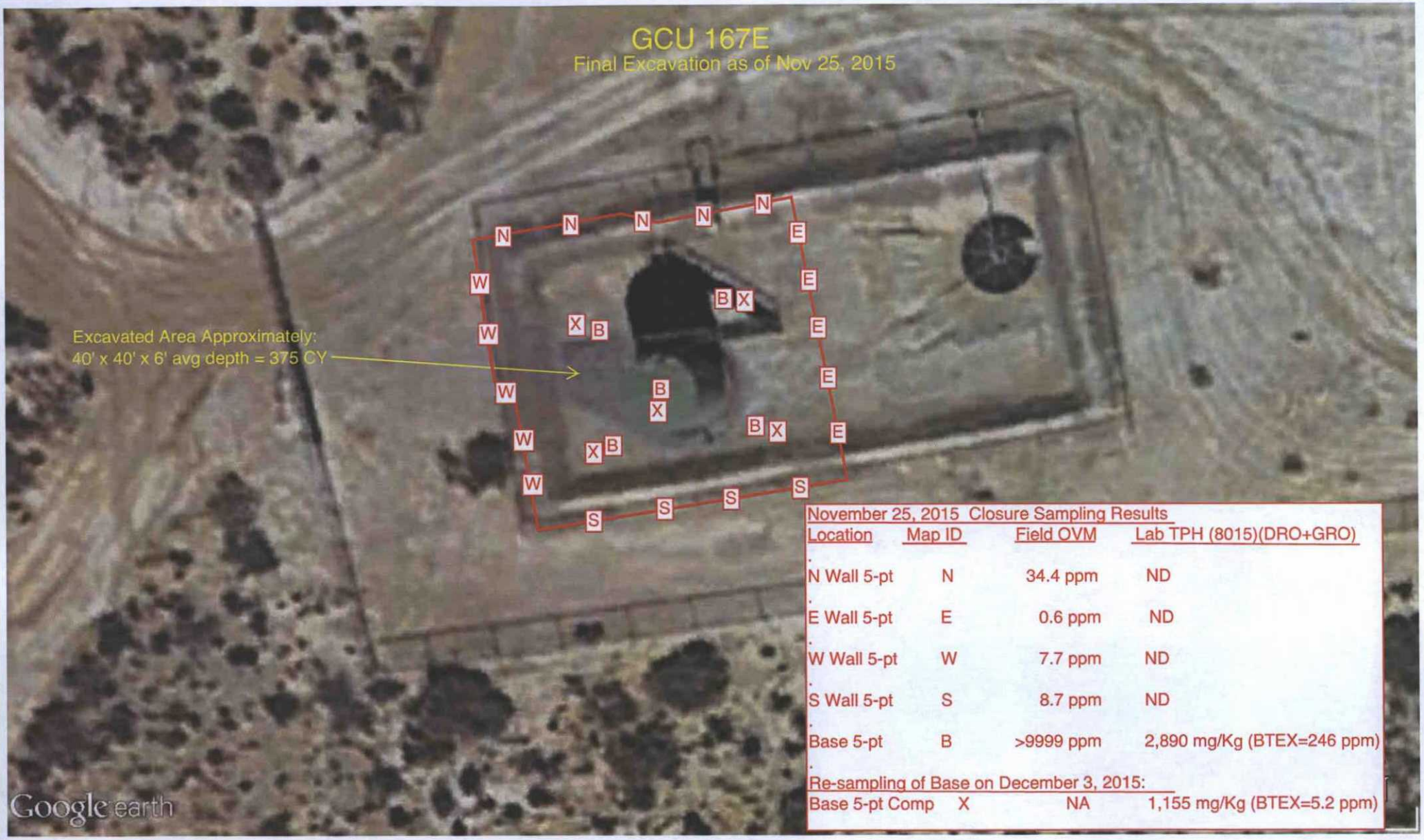
November 25, 2015 Excavation size approximately 40' x 40' x 6' average depth (8'deep on south side, 4' deep on north side). (Entire excavation in sandstone. Total volume of soil transported to JFJ Landfarm 530 Cubic Yards). Sample North, East, West & South Sidewalls & Base. Sampling witnessed by NMOCD:

Sample ID	Date/Time	Map ID	Field OVM	TPH 8015B	BTEX 8021	Chloride
North Wall 5-pt 2'-5'	12/25/2015 @ 11:20	N	34.4	ND	ND	ND
East Wall 5-pt 2'-5'	12/25/2015 @ 11:24	E	0.6	ND	ND	ND
West Wall 5-pt 2'-7'	12/25/2015 @ 11:27	W	7.7	ND	ND	ND
South Wall 4-pt 3'-8'	12/25/2015 @ 11:41	S	8.7	ND	0.06 mg/Kg	ND
Base 5-pt	12/25/2015 @ 11:33	B	>9999	2,890 mg/Kg	235 mg/Kg	ND

December 2, 2015 The oxidizer potassium permanganate is applied to the entire excavation sandstone base to expedite hydrocarbon remediation.

December 3, 2015 Re-sampling of the excavation sandstone base is conducted. Witnessed by NMOCD:

Sample ID	Date/Time	Map ID	Field OVM	TPH 8015B	BTEX 8021	Chloride
Base 5-pt Comp.	12/03/2014 @ 11:22	X	NA	1,155 mg/Kg	5.2 mg/Kg	ND



November 25, 2015 Closure Sampling Results

Location	Map ID	Field OVM	Lab TPH (8015)(DRO+GRO)
N Wall 5-pt	N	34.4 ppm	ND
E Wall 5-pt	E	0.6 ppm	ND
W Wall 5-pt	W	7.7 ppm	ND
S Wall 5-pt	S	8.7 ppm	ND
Base 5-pt	B	>9999 ppm	2,890 mg/Kg (BTEX=246 ppm)

Re-sampling of Base on December 3, 2015:

Base 5-pt Comp	X	NA	1,155 mg/Kg (BTEX=5.2 ppm)


Day 2 Post-Water Potassium Permanganate Treatment


BP - GCU 167E
Remedial Excavation
Non USGS Blue Line Ephemeral Wash
306 Feet From Remedial Excavation
First Spot in Ephemeral Wash with a Width Greater Than 10 Feet
Google earth
N
200 ft

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 01, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: GCU 167E OrderNo.: 1511B64

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/26/2015 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1511B64**
Date Reported: **12/1/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1511B64-001 **Matrix:** SOIL

Client Sample ID: North Wall 5-pt 2'-5'
Collection Date: 11/25/2015 11:20:00 AM
Received Date: 11/26/2015 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2015 11:41:02 AM	22556
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/30/2015 10:46:06 AM	22542
Surr: DNOP	105	70-130		%REC	1	11/30/2015 10:46:06 AM	22542
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	11/30/2015 9:47:25 AM	A30514
Surr: BFB	94.6	66.2-112		%REC	1	11/30/2015 9:47:25 AM	A30514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.045		mg/Kg	1	11/30/2015 9:47:25 AM	B30514
Toluene	ND	0.045		mg/Kg	1	11/30/2015 9:47:25 AM	B30514
Ethylbenzene	ND	0.045		mg/Kg	1	11/30/2015 9:47:25 AM	B30514
Xylenes, Total	ND	0.090		mg/Kg	1	11/30/2015 9:47:25 AM	B30514
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	1	11/30/2015 9:47:25 AM	B30514

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		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1511B64-002 **Matrix:** SOIL

Client Sample ID: East Wall 5-pt 2'-5'
Collection Date: 11/25/2015 11:24:00 AM
Received Date: 11/26/2015 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2015 11:53:27 AM	22556
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/30/2015 11:07:58 AM	22542
Surr: DNOP	108	70-130		%REC	1	11/30/2015 11:07:58 AM	22542
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	11/30/2015 10:11:56 AM	A30514
Surr: BFB	86.8	66.2-112		%REC	1	11/30/2015 10:11:56 AM	A30514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.043		mg/Kg	1	11/30/2015 10:11:56 AM	B30514
Toluene	ND	0.043		mg/Kg	1	11/30/2015 10:11:56 AM	B30514
Ethylbenzene	ND	0.043		mg/Kg	1	11/30/2015 10:11:56 AM	B30514
Xylenes, Total	ND	0.087		mg/Kg	1	11/30/2015 10:11:56 AM	B30514
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	11/30/2015 10:11:56 AM	B30514

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		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1511B64-003 **Matrix:** SOIL

Client Sample ID: West Wall 5-pt 2'-7'
Collection Date: 11/25/2015 11:27:00 AM
Received Date: 11/26/2015 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2015 12:05:52 PM	22556
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/30/2015 11:29:30 AM	22542
Surr: DNOP	108	70-130		%REC	1	11/30/2015 11:29:30 AM	22542
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/30/2015 10:36:29 AM	A30514
Surr: BFB	81.4	66.2-112		%REC	1	11/30/2015 10:36:29 AM	A30514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.040		mg/Kg	1	11/30/2015 10:36:29 AM	B30514
Toluene	ND	0.040		mg/Kg	1	11/30/2015 10:36:29 AM	B30514
Ethylbenzene	ND	0.040		mg/Kg	1	11/30/2015 10:36:29 AM	B30514
Xylenes, Total	ND	0.081		mg/Kg	1	11/30/2015 10:36:29 AM	B30514
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	11/30/2015 10:36:29 AM	B30514

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		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1511B64-004 **Matrix:** SOIL

Client Sample ID: Base 5-pt
Collection Date: 11/25/2015 11:33:00 AM
Received Date: 11/26/2015 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2015 12:18:17 PM	22556
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	890	9.8		mg/Kg	1	11/30/2015 11:51:13 AM	22542
Surr: DNOP	98.5	70-130		%REC	1	11/30/2015 11:51:13 AM	22542
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	2000	210		mg/Kg	50	11/30/2015 11:01:07 AM	A30514
Surr: BFB	229	66.2-112	S	%REC	50	11/30/2015 11:01:07 AM	A30514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.2	1.0		mg/Kg	50	11/30/2015 11:01:07 AM	B30514
Toluene	48	2.1		mg/Kg	50	11/30/2015 11:01:07 AM	B30514
Ethylbenzene	16	2.1		mg/Kg	50	11/30/2015 11:01:07 AM	B30514
Xylenes, Total	170	4.2		mg/Kg	50	11/30/2015 11:01:07 AM	B30514
Surr: 4-Bromofluorobenzene	144	80-120	S	%REC	50	11/30/2015 11:01:07 AM	B30514

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		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1511B64-005 **Matrix:** SOIL

Client Sample ID: South Wall 4-pt 3'-7'
Collection Date: 11/25/2015 11:41:00 AM
Received Date: 11/26/2015 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2015 12:30:41 PM	22556
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/30/2015 12:12:47 PM	22542
Surr: DNOP	93.3	70-130		%REC	1	11/30/2015 12:12:47 PM	22542
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/30/2015 11:25:48 AM	A30514
Surr: BFB	85.7	66.2-112		%REC	1	11/30/2015 11:25:48 AM	A30514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.041		mg/Kg	1	11/30/2015 11:25:48 AM	B30514
Toluene	0.060	0.041		mg/Kg	1	11/30/2015 11:25:48 AM	B30514
Ethylbenzene	ND	0.041		mg/Kg	1	11/30/2015 11:25:48 AM	B30514
Xylenes, Total	ND	0.083		mg/Kg	1	11/30/2015 11:25:48 AM	B30514
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	11/30/2015 11:25:48 AM	B30514

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1511B64**

01-Dec-15

Client: Blagg Engineering

Project: GCU 167E

Sample ID	**MB-22556**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**22556**		RunNo:	**30531**				
Prep Date:	**11/30/2015**	Analysis Date:	**11/30/2015**		SeqNo:	**932129**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-22556**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**22556**		RunNo:	**30531**				
Prep Date:	**11/30/2015**	Analysis Date:	**11/30/2015**		SeqNo:	**932130**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1511B64**

01-Dec-15

Client: Blagg Engineering
Project: GCU 167E

Sample ID **MB-22542**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **22542**	RunNo: **30504**
Prep Date: **11/30/2015**	Analysis Date: **11/30/2015**	SeqNo: **931379** 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	10		10.00		102	70	130			

Sample ID **LCS-22542**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **22542**	RunNo: **30504**
Prep Date: **11/30/2015**	Analysis Date: **11/30/2015**	SeqNo: **931380** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	57.4	139			
Surr: DNOP	4.8		5.000		96.5	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1511B64**

01-Dec-15

Client: Blagg Engineering
Project: GCU 167E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A30514**	RunNo: **30514**
Prep Date:	Analysis Date: **11/30/2015**	SeqNo: **931954** 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	810		1000		81.5	66.2	112			

Sample ID **2.5UG GRO LCSC**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A30514**	RunNo: **30514**
Prep Date:	Analysis Date: **11/30/2015**	SeqNo: **931955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.2	79.6	122			
Surr: BFB	1000		1000		103	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1511B64**

01-Dec-15

Client: Blagg Engineering
Project: GCU 167E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B30514**	RunNo: **30514**
Prep Date:	Analysis Date: **11/30/2015**	SeqNo: **931979** 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: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B30514**	RunNo: **30514**
Prep Date:	Analysis Date: **11/30/2015**	SeqNo: **931980** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	97.4	80	120			
Toluene	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		123	80	120			S

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		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1511B64 RcptNo: 1

Received by/date: AF 11/26/15

Logged By: Anne Thorne 11/26/2015 11:00:00 AM Anne Thorne

Completed By: Anne Thorne 11/30/2015 Anne Thorne

Reviewed By: JR 11/30/15

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 ☐	
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	3.9	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: BP AMERICA	Turn-Around Time: ☐ Standard ☒ Rush SAME DAY
BLAGG ENGINEERING	Project Name: GCU 167E
Mailing Address:	Project #:
Phone #: 505-320-1183	
Email or Fax#:	Project Manager: J. BLAGG
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: J. BLAGG
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 3.9°C

Date	Time	Matrix	Sample Request ID	Container Type and # (11/30/15)	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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				Air Bubbles (Y or N)
11/5/15	1120	SOIL	NORTH WALL 5-PT 2'-5'	4 oz x 1	COOL	001	X		X									X				
"	1124	"	EAST WALL 5-PT 2'-5'	"	"	002	X		X									X				
"	1127	"	WEST WALL 5-PT 2'-7'	"	"	003	X		X									X				
"	1133	"	BASE 5-PT	"	"	004	X		X									X				
"	1141	"	SOUTH WALL 4-PT 3'-7'	"	"	005	X		X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
11/5/15	1214	J. Blagg		11/5/15	1214
11/25/15	1300			11/25/15	1300

Remarks: BILL BP
Billing Codes to Follow

CONTACT: STEVE MOSCAL

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

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

December 07, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: GCU 167E OrderNo.: 1512182

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/4/2015 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1512182**
Date Reported: **12/7/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 167E
Lab ID: 1512182-001
Matrix: MEOH (SOIL)
Client Sample ID: BASE 5-pt Comp.
Collection Date: 12/3/2015 9:40:00 AM
Received Date: 12/4/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	12/4/2015 12:41:59 PM	22638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	1100	95		mg/Kg	10	12/4/2015 12:09:43 PM	22634
Surr: DNOP	0	70-130	S	%REC	10	12/4/2015 12:09:43 PM	22634
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	55	24		mg/Kg	5	12/4/2015 11:45:25 AM	A30626
Surr: BFB	155	66.2-112	S	%REC	5	12/4/2015 11:45:25 AM	A30626
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	12/4/2015 11:45:25 AM	B30626
Toluene	0.47	0.24		mg/Kg	5	12/4/2015 11:45:25 AM	B30626
Ethylbenzene	0.35	0.24		mg/Kg	5	12/4/2015 11:45:25 AM	B30626
Xylenes, Total	4.4	0.48		mg/Kg	5	12/4/2015 11:45:25 AM	B30626
Surr: 4-Bromofluorobenzene	151	80-120	S	%REC	5	12/4/2015 11:45:25 AM	B30626

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512182**

07-Dec-15

Client: Blagg Engineering
Project: GCU 167E

Sample ID	**MB-22638**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **22638**			RunNo: **30634**					
Prep Date:	**12/4/2015**	Analysis Date: **12/4/2015**			SeqNo: **936263**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-22638**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **22638**			RunNo: **30634**					
Prep Date:	**12/4/2015**	Analysis Date: **12/4/2015**			SeqNo: **936264**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512182**

07-Dec-15

Client: Blagg Engineering

Project: GCU 167E

Sample ID **MB-22634**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **22634**	RunNo: **30624**
Prep Date: **12/4/2015**	Analysis Date: **12/4/2015**	SeqNo: **935424** 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	9.8		10.00		97.7	70	130			

Sample ID **LCS-22634**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **22634**	RunNo: **30624**
Prep Date: **12/4/2015**	Analysis Date: **12/4/2015**	SeqNo: **935425** 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	89.6	57.4	139			
Surr: DNOP	4.8		5.000		96.2	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512182**

07-Dec-15

Client: Blagg Engineering

Project: GCU 167E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A30626**	RunNo: **30626**
Prep Date:	Analysis Date: **12/4/2015**	SeqNo: **935784** 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		84.6	66.2	112			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A30626**	RunNo: **30626**
Prep Date:	Analysis Date: **12/4/2015**	SeqNo: **935785** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	79.6	122			
Surr: BFB	1000		1000		102	66.2	112			

Sample ID **MB-22611**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **22611**	RunNo: **30626**
Prep Date: **12/3/2015**	Analysis Date: **12/4/2015**	SeqNo: **935788** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.5	66.2	112			

Sample ID **LCS-22611**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **22611**	RunNo: **30626**
Prep Date: **12/3/2015**	Analysis Date: **12/4/2015**	SeqNo: **935789** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		111	66.2	112			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512182**

07-Dec-15

Client: Blagg Engineering
Project: GCU 167E

Sample ID **5ML RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B30626** RunNo: **30626**
Prep Date: Analysis Date: **12/4/2015** SeqNo: **935815** 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: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B30626** RunNo: **30626**
Prep Date: Analysis Date: **12/4/2015** SeqNo: **935816** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.2	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID **MB-22611** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **22611** RunNo: **30626**
Prep Date: **12/3/2015** Analysis Date: **12/4/2015** SeqNo: **935819** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID **LCS-22611** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **22611** RunNo: **30626**
Prep Date: **12/3/2015** Analysis Date: **12/4/2015** SeqNo: **935820** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		132	80	120			S

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1512182 | RcptNo: 1

Received by/date: JA 12/04/15

Logged By: Celina Sessa 12/4/2015 8:00:00 AM Celina Sessa

Completed By: Celina Sessa 12/4/2015 9:09:59 AM Celina Sessa

Reviewed By: 12/04/15

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 ☐	
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	1.3	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client:	BP America
	Blagg Engineering
Mailing Address:	
Phone #:	505-320-1183
Email or Fax#:	
QA/QC Package:	☒ Standard ☐ Level 4 (Full Validation)
Accreditation	☒ NELAP ☐ Other
☐ EDD (Type)	
Turn-Around Time:	☐ Standard ☒ Rush ASAP SAME DAY
Project Name:	GCU 167E
Project #:	
Project Manager:	J. Blagg
Sampler:	J. Blagg
On Ice:	☒ Yes ☐ No
Sample Temperature:	1.3

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1512182	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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				Air Bubbles (Y or N)
12/3/2015	0940	SOIL	BASE 5-PT COMP.	4oz x1	COOL	-001	X		X									X				

Date: 12/3/15	Time: ~~1440~~ 1540	Relinquished by: Jeff Blagg	Received by: Christie Walters	Date: 12/3/15	Time: 1246
Date: 12/3/15	Time: 1741	Relinquished by: Christie Walters	Received by:	Date: 12/04/15	Time: 0800

Remarks: Bill BP

CONTACT: STEVE MOSKAL

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.

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-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
BP America Production Co. 200 Energy Ct. Farmington, NM 87401

2. **Originating Site:**
Gallegos Canyon Unit #167E
Paykey: VHIXONEVB2

3. **Location of Material (Street Address, City, State or ULSTR):**
QRT/QRT: SE/NE Unit: H Section: 18 T28N R11W

4. **Source and Description of Waste:** Hydrocarbon impacted soils

12/1/15 - 30cy
11/25/15 - 330cy

Estimated Volume 150 ☒ yd³ / ☐ bbls Known Volume (to be entered by the operator at the end of the haul) 170 yd³ / ☐ bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Steve Moskal, representative or authorized agent for BP America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mi[illegible] non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for wa[illegible]ous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 C[illegible]61, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-ha[illegible] (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description[illegible])

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

Steve Moskal, representative for BP America Production Company authorize IEI to complete[illegible]red testing/sign the Generator Waste Testing Certification.

I, K. Selph, representative for JFJ do hereby certify [illegible] representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and t[illegible]mples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMA[illegible]sults of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Sectio[illegible] 19.15.36 NMAC.

5. **Transporter:**
Crossfire

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Industrial Ecosystems Inc., JFJ Waste Management Facility (JFJ), Permit NM-01-0010B

Address of Facility: #49 CR 3150 Aztec, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: K. Selph TITLE: Clerk DATE: 11/24/15

SIGNATURE: K. Selph TELEPHONE NO.: 632-1782

Surface Waste Management Facility Authorized Agent