

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

RECEIVED

JAN 16 2015

NMOCD

DISTRICT III

Form C-141
Revised August 8, 2011

Submit 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: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Gallegos Canyon Unit 8E	Facility Type: Natural gas well

Surface Owner: Tribal	Mineral Owner: Federal	API No. 3004526191
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LOCATION OF RELEASE

Unit Letter J	Section 22	Township 28N	Range 12W	Feet from the 1,700	North/South Line South	Feet from the 1,770	East/West Line East	County: San Juan
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Latitude 36.64514 Longitude 108.09558

NATURE OF RELEASE

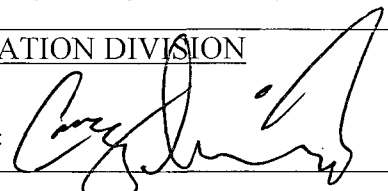
Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: August 13, 2013; 12:09 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.* During removal of the below grade tank (BGT) soil underneath the tank was sampled. Analysis results showed TPH values of 6,000 ppm by Method 418.1, indicating a release occurred at some time. Impacted soil was excavated and removed.

Describe Area Affected and Cleanup Action Taken.* Impacted soil under the BGT was excavated and removed until remaining soil samples resulted in TPH values of less than 100 ppm TPH, which is the cleanup standard for this site. Approximately 210 cubic yards of impacted soil were removed and transported to a landfarm for treatment. The excavated area was backfilled with clean soil and compacted. Attached are lab analyses and a site map.

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: Jeff Peace	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <u>3/23/15</u>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: January 16, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

#NCS 1508241 775

28

BP America: GCU 8E

(J) Sec 22 – T28N – R12W

API: 30-045-26191

San Juan County, New Mexico

Summary Record of Impact Remediation

August 13, 2013 Gray soils with hydrocarbon odor and elevated field organic vapor meter (OVM) readings encountered during closure of the 95 bbl BGT used for disposal of produced liquids. A soil sample collected with a backhoe 12 feet below grade at the BGT location lab tested total petroleum hydrocarbons (TPH) at 3,500 ppm (DRO) and 2,500 ppm (GRO). There did not appear to be any integrity issues with the BGT and the original source of impacts was not apparent, but was likely historical in nature. The field report for this closure is included in this report.

The Site Closure Standard was determined at 100 ppm TPH based on:

Horizontal Distance to Nearby Arroyo < 200 feet (20 points)

Depth to Groundwater Estimated at < 50 feet (20 points)

February 5, 2014 A mobile GeoProbe was used to establish the vertical and areal extent of impacts. Two borings were advanced, with borehole BH-1 placed at the BGT center location and BH-2 placed just outside the BGT location. Both were advanced to a depth of 20 feet, with no visual hydrocarbon impacts encountered in either boring. Composite samples from the borings found low levels of DRO (<54 ppm) and no GRO (< 5 ppm detection limit), with BTEX at non-detect. The lab reports and boring logs for this investigation are included.

September 3, 2014 Conduct remediation by excavation. Removed soils at original BGT location in a volume of 25' x 25' x 16' deep. Collect composite samples from North, South, East and West Sidewalls, and from Base for laboratory analysis. No visual evidence of impacts on sidewalls or base.

Sample ID	Date/Time	Map ID	Field OVM (ppm)	TPH 8015B (mg/Kg)	BTEX 8021 (mg/Kg)	Chloride (mg/Kg)
West Wall 3-pt 5'-14'	9/03/2014 @ 13:40	1	0.6	ND	ND	111
South Wall 3-pt 5'-14'	9/03/2014 @ 13:43	2	6.0	91.2	ND	290
North Wall 3-pt 5'-14'	9/03/2014 @ 13:46	3	0.0	ND	ND	99.1
East Wall 3-pt 5'-14'	9/03/2014 @ 13:48	4	0.0	ND	ND	276
Base 5-pt @ - 16'	9/03/2014 @ 13:52	5	0.2	64.5	ND	104

September 4, 2014 Excavation backfilled following receipt of laboratory analytical reports. Total volume transported to landfarm = 210 cubic yards





BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU 8E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
05-Sep-14 10:28

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
W.Wall 3-pt 5'-14'	P409014-01A	Soil	09/03/14	09/03/14	Glass Jar, 4 oz.
S.Wall 3-pt 5'-14'	P409014-02A	Soil	09/03/14	09/03/14	Glass Jar, 4 oz.
N.Wall 3-pt 5'-14'	P409014-03A	Soil	09/03/14	09/03/14	Glass Jar, 4 oz.
E.Wall 3-pt 5'-14'	P409014-04A	Soil	09/03/14	09/03/14	Glass Jar, 4 oz.
Base 5-pt @16'	P409014-05A	Soil	09/03/14	09/03/14	Glass Jar, 4 oz.

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Tulsa OK, 74121-2024

Project Name: GCU 8E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
05-Sep-14 10:28

W.Wall 3-pt 5'-14'
P409014-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %		50-150	1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		101 %		50-150	1436019	09/03/14	09/04/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1436020	09/03/14	09/04/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		115 %		50-200	1436020	09/03/14	09/04/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	111	9.85	mg/kg	1	1436015	09/03/14	09/03/14	EPA 300.0	

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Project Name: GCU 8E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
05-Sep-14 10:28

S.Wall 3-pt 5'-14'
P409014-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.9 %		50-150		1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.2 %		50-150		1436019	09/03/14	09/04/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1436019	09/03/14	09/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	91.2	30.0	mg/kg	1		1436020	09/03/14	09/04/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		145 %		50-200		1436020	09/03/14	09/04/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	290	9.83	mg/kg	1		1436015	09/03/14	09/03/14	EPA 300.0	

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Tulsa OK, 74121-2024

Project Name: GCU 8E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
05-Sep-14 10:28

N.Wall 3-pt 5'-14'
P409014-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.4 %		50-150	1436019	09/03/14	09/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		95.6 %		50-150	1436019	09/03/14	09/04/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1436019	09/03/14	09/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1436020	09/03/14	09/04/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		106 %		50-200	1436020	09/03/14	09/04/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	99.1	9.97	mg/kg	1	1436015	09/03/14	09/03/14	EPA 300.0	

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Project Name: GCU 8E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
05-Sep-14 10:28

E.Wall 3-pt 5'-14'
P409014-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.4 %		50-150	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		95.1 %		50-150	1436019	09/04/14	09/04/14	09/04/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1436019	09/04/14	09/04/14	09/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1436020	09/04/14	09/04/14	09/04/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		190 %		50-200	1436020	09/04/14	09/04/14	09/04/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	276	9.95	mg/kg	1	1436023	09/04/14	09/04/14	09/04/14	EPA 300.0	

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: GCU 8E
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 05-Sep-14 10:28

Base 5-pt @16'
P409014-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		95.6 %		50-150		1436019	09/04/14	09/04/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.3 %		50-150		1436019	09/04/14	09/04/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1436019	09/04/14	09/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	64.5	30.0	mg/kg	1		1436020	09/04/14	09/04/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		132 %		50-200		1436020	09/04/14	09/04/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	104	9.91	mg/kg	1		1436023	09/04/14	09/04/14	EPA 300.0	

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BP America Production Co.	Project Name:	GCU 8E	Reported: 05-Sep-14 10:28
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2424	Project Manager:	Jeff Blagg	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1436019 - Purge and Trap EPA 5030A

Blank (1436019-BLK1)			Prepared: 03-Sep-14 Analyzed: 04-Sep-14							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	0.0496		"	0.0498		99.5	50-150			
Surrogate: Bromochlorobenzene	0.0496		"	0.0498		99.6	50-150			

Duplicate (1436019-DUP1)			Source: P409011-02		Prepared: 03-Sep-14 Analyzed: 04-Sep-14					
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	0.0508		"	0.0499		102	50-150			
Surrogate: Bromochlorobenzene	0.0492		"	0.0499		98.6	50-150			

Matrix Spike (1436019-MS1)			Source: P409011-02		Prepared: 03-Sep-14 Analyzed: 04-Sep-14					
Benzene	45.4		ug/L	50.0	ND	90.9	39-150			
Toluene	45.6		"	50.0	ND	91.3	46-148			
Ethylbenzene	45.0		"	50.0	ND	90.1	32-160			
p,m-Xylene	90.7		"	100	ND	90.7	46-148			
o-Xylene	45.3		"	50.0	ND	90.5	46-148			
Surrogate: 1,3-Dichlorobenzene	2.59		mg/kg	2.50		104	50-150			
Surrogate: Bromochlorobenzene	2.56		"	2.50		102	50-150			

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BP America Production Co.	Project Name:	GCU 8E	Reported: 05-Sep-14 10:28
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1436019 - Purge and Trap EPA 5030A										
Blank (1436019-BLK1)				Prepared: 03-Sep-14 Analyzed: 04-Sep-14						
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg							
Duplicate (1436019-DUP1)				Source: P409011-02 Prepared: 03-Sep-14 Analyzed: 04-Sep-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1436019-MS1)				Source: P409011-02 Prepared: 03-Sep-14 Analyzed: 04-Sep-14						
Gasoline Range Organics (C6-C10)	0.41		mg/L	0.450	ND	90.2	75-125			

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BP America Production Co.	Project Name:	GCU 8E	Reported: 05-Sep-14 10:28
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1436020 - DRO Extraction EPA 3550M										
Blank (1436020-BLK1)				Prepared: 03-Sep-14 Analyzed: 04-Sep-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: Benzo[a]pyrene	18.3		"	19.9		92.0	50-200			
LCS (1436020-BS1)				Prepared: 03-Sep-14 Analyzed: 04-Sep-14						
Diesel Range Organics (C10-C28)	491	25.0	mg/kg	500		98.4	38-132			
Surrogate: Benzo[a]pyrene	20.7		"	20.0		104	50-200			
Matrix Spike (1436020-MS1)				Source: P409011-02		Prepared: 03-Sep-14 Analyzed: 04-Sep-14				
Diesel Range Organics (C10-C28)	645	29.9	mg/kg	499	40.0	121	38-132			
Surrogate: Benzo[a]pyrene	24.8		"	20.0		124	50-200			
Matrix Spike Dup (1436020-MSD1)				Source: P409011-02		Prepared: 03-Sep-14 Analyzed: 04-Sep-14				
Diesel Range Organics (C10-C28)	788	30.0	mg/kg	499	40.0	150	38-132	20.0	20	SPK1
Surrogate: Benzo[a]pyrene	21.8		"	20.0		109	50-200			

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Ph (970) 259-0615 Fr (800) 362-1879





BP America Production Co.	Project Name:	GCU 8E	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	05-Sep-14 10:28

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1436015 - Anion Extraction EPA 300.0										
Blank (1436015-BLK1)					Prepared & Analyzed: 03-Sep-14					
Chloride	ND	9.88	mg/kg							
LCS (1436015-BS1)					Prepared & Analyzed: 03-Sep-14					
Chloride	498	9.85	mg/kg	492		101	90-110			
Matrix Spike (1436015-MS1)					Source: P409003-01 Prepared & Analyzed: 03-Sep-14					
Chloride	612	9.86	mg/kg	493	102	103	80-120			
Matrix Spike Dup (1436015-MSD1)					Source: P409003-01 Prepared & Analyzed: 03-Sep-14					
Chloride	618	9.86	mg/kg	493	102	105	80-120	1.01	20	

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BP America Production Co.	Project Name:	GCU 8E	Reported: 05-Sep-14 10:28
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1436023 - Anion Extraction EPA 300.0										
Blank (1436023-BLK1)				Prepared & Analyzed: 04-Sep-14						
Chloride	ND	9.97	mg/kg							
LCS (1436023-BS1)				Prepared & Analyzed: 04-Sep-14						
Chloride	489	9.99	mg/kg	499		98.0	90-110			
Matrix Spike (1436023-MS1)				Source: P409014-04 Prepared & Analyzed: 04-Sep-14						
Chloride	782	9.90	mg/kg	495	276	102	80-120			
Matrix Spike Dup (1436023-MSD1)				Source: P409014-04 Prepared & Analyzed: 04-Sep-14						
Chloride	774	9.88	mg/kg	494	276	101	80-120	1.01	20	

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CHAIN OF CUSTODY RECORD

17388

Client: BP AMERICA			Project Name / Location: GCU BE			ANALYSIS / PARAMETERS													
Email results to: jeffcblagg@aol.com peace.jeffrey@BP.com			Sampler Name: J. BLAGG			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 03143-0424																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
W. wall 3-pt 5'-14'	9/3/2014	1340	P409014-01	1 x 4oz				X	X							X			✓✓
S. wall 3-pt 5'-14'	"	1343	P409014-02	"				X	X							X			✓✓
N. wall 3-pt 5'-14'	"	1346	P409014-03	"				X	X							X			✓✓
E wall 3-pt 5'-14'	"	1348	P409014-04	"				X	X							X			✓✓
BASE 5-pt @ 16'	"	1352	P409014-05	"				X	X							X			✓✓
Relinquished by: (Signature) Jeff Blagg					Date	Time	Received by: (Signature) [Signature]					Date	Time						
					9/3/2014	1444						9/3/14	1444						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			
														10.0 10.8 12.4					

BP America: GCU 8E
(J) Sec 22 – T28N – R12W
API: 30-045-26191
San Juan County, New Mexico

GeoProbe Investigation
Feb 5, 2014



CCU 8E

Original 95 BGT Location

GP-1

GP-2

N

50 ft

Google earth

Page 1 of 1

BORING ID: GP-1

[illegible]

P.O. BOX 87, BLOOMFIELD, NM 87413

(505) 632-1199

FIELD BORING LOG

BORING ID: GP-2

PROJECT: BP: GCU 8E

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyvek

EQUIPMENT USED: GeoProbe

DATE START: 2-5-2014 DATE FINISH: 2-5-2014 DRILLER: Kyvek LOGGED BY: JCB

TOTAL DEPTH: 20' CASING TYPE & SIZE: SLOT SIZE:

COMMENTS: LOCATED 12' SE OF GP-1

[illegible]

Analytical Report

Lab Order 1402284

Date Reported: 2/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP1/GP2-2pt@12'

Project: GCU 8E

Collection Date: 2/5/2014 10:34:00 AM

Lab ID: 1402284-001

Matrix: SOIL

Received Date: 2/7/2014 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	26	10		mg/Kg	1	2/11/2014 12:40:27 PM	11640
Surr: DNOP	110	66-131		%REC	1	2/11/2014 12:40:27 PM	11640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/11/2014 1:19:21 PM	11645
Surr: BFB	91.8	74.5-129		%REC	1	2/11/2014 1:19:21 PM	11645
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	2/12/2014 1:51:57 PM	11645
Toluene	ND	0.046		mg/Kg	1	2/12/2014 1:51:57 PM	11645
Ethylbenzene	ND	0.046		mg/Kg	1	2/12/2014 1:51:57 PM	11645
Xylenes, Total	ND	0.093		mg/Kg	1	2/12/2014 1:51:57 PM	11645
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	2/12/2014 1:51:57 PM	11645
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	260	30		mg/Kg	20	2/13/2014 11:59:22 AM	11710

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1402284

Date Reported: 2/17/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** GP1/GP2-2pt@16'**Project:** GCU 8E**Collection Date:** 2/5/2014 10:40:00 AM**Lab ID:** 1402284-002**Matrix:** SOIL**Received Date:** 2/7/2014 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	29	10		mg/Kg	1	2/11/2014 1:10:52 PM	11640
Surr: DNOP	105	66-131		%REC	1	2/11/2014 1:10:52 PM	11640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/11/2014 2:49:56 PM	11645
Surr: BFB	89.1	74.5-129		%REC	1	2/11/2014 2:49:56 PM	11645
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/12/2014 3:22:38 PM	11645
Toluene	ND	0.050		mg/Kg	1	2/12/2014 3:22:38 PM	11645
Ethylbenzene	ND	0.050		mg/Kg	1	2/12/2014 3:22:38 PM	11645
Xylenes, Total	ND	0.099		mg/Kg	1	2/12/2014 3:22:38 PM	11645
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	2/12/2014 3:22:38 PM	11645
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	140	30		mg/Kg	20	2/13/2014 12:36:37 PM	11710

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1402284

Date Reported: 2/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP1/GP2-2pt@19'

Project: GCU 8E

Collection Date: 2/5/2014 10:44:00 AM

Lab ID: 1402284-003

Matrix: SOIL

Received Date: 2/7/2014 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	54	10		mg/Kg	1	2/11/2014 1:41:20 PM	11640
Surr: DNOP	103	66-131		%REC	1	2/11/2014 1:41:20 PM	11640
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/11/2014 3:20:09 PM	11645
Surr: BFB	91.3	74.5-129		%REC	1	2/11/2014 3:20:09 PM	11645
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	2/12/2014 3:52:53 PM	11645
Toluene	ND	0.049		mg/Kg	1	2/12/2014 3:52:53 PM	11645
Ethylbenzene	ND	0.049		mg/Kg	1	2/12/2014 3:52:53 PM	11645
Xylenes, Total	ND	0.097		mg/Kg	1	2/12/2014 3:52:53 PM	11645
Surr: 4-Bromofluorobenzene	95.2	80-120		%REC	1	2/12/2014 3:52:53 PM	11645
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	72	30		mg/Kg	20	2/13/2014 12:49:02 PM	11710

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.
	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#: 1402284

17-Feb-14

Client: Blagg Engineering

Project: GCU 8E

Sample ID	MB-11710	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	11710	RunNo:	16753					
Prep Date:	2/13/2014	Analysis Date:	2/13/2014	SeqNo:	482183	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-11710	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	11710	RunNo:	16753					
Prep Date:	2/13/2014	Analysis Date:	2/13/2014	SeqNo:	482184	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402284

17-Feb-14

Client: Blagg Engineering

Project: GCU 8E

Sample ID	MB-11640	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11640	RunNo:	16651					
Prep Date:	2/10/2014	Analysis Date:	2/11/2014	SeqNo:	479862	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	8.9		10.00		89.0	66	131			

Sample ID	LCS-11640	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11640	RunNo:	16651					
Prep Date:	2/10/2014	Analysis Date:	2/11/2014	SeqNo:	479863	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	96.4	60.8	145			
Surr: DNOP	4.5		5.000		89.4	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402284

17-Feb-14

Client: Blagg Engineering

Project: GCU 8E

Sample ID	MB-11645	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11645	RunNo:	16689					
Prep Date:	2/10/2014	Analysis Date:	2/11/2014	SeqNo:	480351	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	900		1000		90.4	74.5	129			

Sample ID	LCS-11645	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11645	RunNo:	16689					
Prep Date:	2/10/2014	Analysis Date:	2/11/2014	SeqNo:	480352	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.4	74.5	126			
Surr: BFB	1000		1000		101	74.5	129			

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. |
| 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#: 1402284

17-Feb-14

Client: Blagg Engineering

Project: GCU 8E

Sample ID	MB-11645		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	11645		RunNo:	16721			
Prep Date:	2/10/2014		Analysis Date:	2/12/2014		SeqNo:	481216		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		101	80	120			

Sample ID	LCS-11645		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	11645		RunNo:	16721			
Prep Date:	2/10/2014		Analysis Date:	2/12/2014		SeqNo:	481217		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	90.9	80	120			
Toluene	0.90	0.050	1.000	0	90.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.6	80	120			

Sample ID	1402284-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	GP1/GP2-2pt@12'		Batch ID:	11645		RunNo:	16721			
Prep Date:	2/10/2014		Analysis Date:	2/12/2014		SeqNo:	481220		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.046	0.9276	0	94.4	67.4	135			
Toluene	0.87	0.046	0.9276	0	94.3	72.6	135			
Ethylbenzene	0.90	0.046	0.9276	0	96.6	69.4	143			
Xylenes, Total	2.8	0.093	2.783	0.02377	98.5	70.8	144			
Surr: 4-Bromofluorobenzene	1.0		0.9276		108	80	120			

Sample ID	1402284-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	GP1/GP2-2pt@12'		Batch ID:	11645		RunNo:	16721			
Prep Date:	2/10/2014		Analysis Date:	2/12/2014		SeqNo:	481221		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.046	0.9294	0	92.6	67.4	135	1.79	20	
Toluene	0.85	0.046	0.9294	0	91.8	72.6	135	2.50	20	
Ethylbenzene	0.88	0.046	0.9294	0	94.4	69.4	143	2.13	20	
Xylenes, Total	2.7	0.093	2.788	0.02377	96.4	70.8	144	1.89	20	
Surr: 4-Bromofluorobenzene	0.82		0.9294		87.8	80	120	0	0	

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

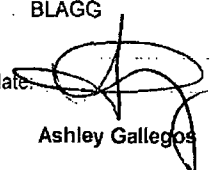
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: 1402284 RcptNo: 1

Received by/date:  02/07/14

Logged By: Ashley Gallegos 2/7/2014 10:30:00 AM 

Completed By: Ashley Gallegos 2/7/2014 2:11:46 PM 

Reviewed By:  At 02/07/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

