

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

OIL CONS. DIV DIST. 3

Form C-141
Revised August 8, 2011

OCT 26 2015

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: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: GCU 85	Facility Type: Natural gas well

Surface Owner: Tribal	Mineral Owner: Tribal	API No. 3004513075
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LOCATION OF RELEASE

Unit Letter A	Section 19	Township 28N	Range 12W	Feet from the 990	North/South Line North	Feet from the 990	East/West Line East	County: San Juan
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Latitude 36.65227 Longitude -108.14745

NATURE OF RELEASE

Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: flow line from separator to condensate tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: May 4, 2015; 11:55 AM
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 construction operations to replace the flow line from the separator to the condensate tank impacts to soil were found. Lab analyses of soil samples taken during the initial investigation showed TPH of 1,410 ppm and 2,610 ppm by Method 8015D. The clean-up standard for this site is 1,000 ppm TPH, as documented in the attached email. Excavation of 2,052 cubic yards occurred from May 7-15, 2015. A completed Form C-138 is attached. Final laboratory results are also attached.

Describe Area Affected and Cleanup Action Taken.* Impacted soil was excavated and transported off site to a landfarm for treatment. Final excavation dimensions measured approximately 105'x 55'x 12-15' deep. Final samples submitted for laboratory analysis were below the site specific soil remediation guidelines outlined in the NMOCD Spill Guidelines.

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: <u>12/30/2015</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: October 21, 2015	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

NCS1512549954

Unit A, Sec. 19, T28N, R12W
API #: 3004513075

Sample ID	Date	TPH (ppm)
West	5/5/15	2,610 - EX
EB (2)	5/5/15	1,420 - EX
WWS	5/7/15	306
So.	5/7/15	175
SB	5/7/15	577
North Wall	5/8/15	17
NW SW	5/8/15	279
NB	5/8/15	824
SE Corner	5/11/15	118
NE Corner	5/11/15	22
SE Wall @ Tank Ring	5/11/15	1,118 - EX
Ext West Wall	5/12/15	383
Ext WB	5/12/15	328
300 Tank Grab	5/13/15	152
EC Base	5/13/15	542
EW Center	5/13/15	727
EW North	5/13/15	1,075 - EX
E Wall-South	5/15/15	175
E Wall-North	5/15/15	210
(Extended)		

[illegible]

Google earth

60 ft

From: Smith, Cory, EMNRD, EMNRD <Cory.Smith@state.nm.us>
To: jeffcblagg <jeffcblagg@aol.com>
Cc: peace.jeffrey <peace.jeffrey@bp.com>
Subject: RE: BP - GCU 85 - Ranking
Date: Thu, May 7, 2015 9:53 am

Jeff,

I agree with your Site ranking of a 10, the draining to the east is a 1st order tributary to the blue line arroyo and starts to really form just outside of 200' from the BGT.

If you have any questions give me a call

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: jeffcblagg@aol.com [<mailto:jeffcblagg@aol.com>]
Sent: Wednesday, May 06, 2015 7:32 AM
To: Smith, Cory, EMNRD
Cc: peace.jeffrey@bp.com; blagg_njv@yahoo.com
Subject: BP - GCU 85 - Ranking

Cory:

BP is in the process of investigating what may be an unreportable release of hydrocarbons from a pipeline leak at the GCU 85 and would like to confirm the site closure standard pursuant to the NMOCD "Spill and Release Guidelines". Some site specifics are:

Well Name: GCU 85
API: 30-045-13075
Legals: (A) Sec 19 - T28N - R12W
GPS: 36.65212 N x 108.14788 W

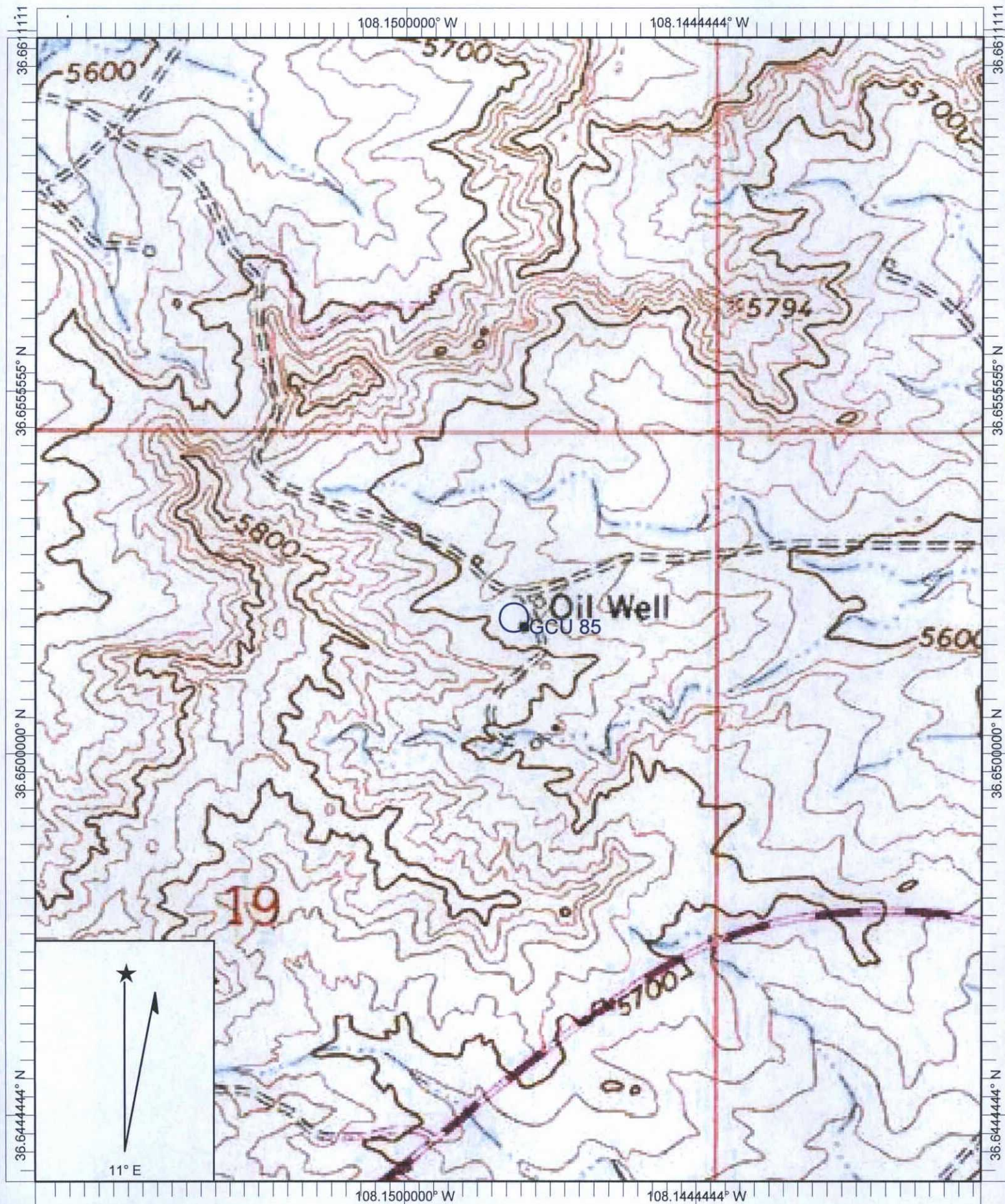
Impacts at the site were from a minor amount of condensate, likely less than 1 barrel, from a failed piping connection at the separator. While removing those impacts dark soils with a hydrocarbon odor were discovered below the ground surface. Research indicates that a prior earthen pit at this location was closed out in 2002 and a 95 barrel BGT was put into the same pit, located immediately south of the separator.

BP believes the site ranking should be scored 10 points, with a closure standard of 1,000 ppm TPH based on the following:

Depth to Groundwater: Greater than 100 feet (0 points)
Distance to Well or Spring: Greater than 1,000 feet (0 points)
Distance to Dry Wash (Dashed Blue Line on USGS Topo Sheet): Greater than 600 feet (10 Points)

Attached is a PDF file to document each of the ranking points presented here. NMOCD's concurrence with the ranking score will assist BP in determining if a reportable event and subsequent remediation may be required for the historical impacted soils encountered at the site. BP presently has excavation equipment on location. If you would like to inspect the site, I can be available at your convenience to meet you there.

Regards,
Jeff Blagg
Blagg Engineering Inc.
cell: (505)320-1183
jeffcblagg@aol.com



Name: FARMINGTON SOUTH
Date: 5/6/2015
Scale: 1 inch equals 666 feet

Location: 036.652223° N 108.148036° W
Caption: BP - GCU 85



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 5/7/2015 2:17:00PM

Job Number: 03143-0424

Work Order: P505015

Project Name/Location: GCU #85

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/11/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
3-PC South Wall @ 7'-12'	P505015-01A	Soil	05/07/15	05/07/15	Glass Jar, 4 oz.
3-PC South Base @ 15'	P505015-02A	Soil	05/07/15	05/07/15	Glass Jar, 4 oz.
3-PC West Wall (south) @ 7'-12'	P505015-03A	Soil	05/07/15	05/07/15	Glass Jar, 4 oz.

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

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

envirotech-inc.com

laboratory@envirotech-inc.com



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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

3-PC South Wall @ 7'-12'
P505015-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Toluene	0.12	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Ethylbenzene	0.45	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
p,m-Xylene	2.26	0.20	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
o-Xylene	0.45	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total Xylenes	2.71	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total BTEX	3.29	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %		50-150	1519030	05/07/15	05/08/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	67.7	9.99	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8015D	
Diesel Range Organics (C10-C28)	107	24.9	mg/kg	1	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: o-Terphenyl		97.4 %		50-200	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		100 %		50-150	1519030	05/07/15	05/08/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	15.4	9.98	mg/kg	1	1519031	05/08/15	05/08/15	EPA 300.0	

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laboratory@envirotech-inc.com



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PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

Extended East Wall- north End 3pt @ 4'-14'
P505048-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Toluene	0.11	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Ethylbenzene	0.44	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
p,m-Xylene	3.98	0.20	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
o-Xylene	0.53	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Total Xylenes	4.50	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Total BTEX	5.05	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %		50-150	1521002	05/18/15	05/18/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	104	9.99	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8015D	
Diesel Range Organics (C10-C28)	106	24.9	mg/kg	1	1521001	05/18/15	05/18/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		104 %		50-200	1521001	05/18/15	05/18/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		113 %		50-150	1521002	05/18/15	05/18/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	38.4	9.90	mg/kg	1	1521003	05/18/15	05/18/15	EPA 300.0	

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laboratory@envirotech-inc.com



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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

East Wall- South End 3pt @ 4'-14'
P505048-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
p,m-Xylene	0.53	0.20	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
o-Xylene	0.14	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Total Xylenes	0.67	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
Total BTEX	0.67	0.10	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	50-150		1521002	05/18/15	05/18/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	36.6	9.97	mg/kg	1	1521002	05/18/15	05/18/15	EPA 8015D	
Diesel Range Organics (C10-C28)	138	24.9	mg/kg	1	1521001	05/18/15	05/18/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		100 %	50-200		1521001	05/18/15	05/18/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		107 %	50-150		1521002	05/18/15	05/18/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	26.2	9.91	mg/kg	1	1521003	05/18/15	05/18/15	EPA 300.0	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

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 1521002 - Purge and Trap EPA 5030A

Blank (1521002-BLK1)

Prepared & Analyzed: 18-May-15

Benzene	ND	0.002	mg/kg
Toluene	ND	0.002	"
Ethylbenzene	ND	0.002	"
p,m-Xylene	ND	0.004	"
o-Xylene	ND	0.002	"
Total Xylenes	ND	0.002	"
Total BTEX	ND	0.002	"

Surrogate: 4-Bromochlorobenzene-PID 0.483 " 0.399 121 50-150

LCS (1521002-BS1)

Prepared: 18-May-15 Analyzed: 19-May-15

Benzene	22.6	0.10	mg/kg	20.0	113	75-125
Toluene	20.6	0.10	"	20.0	103	70-125
Ethylbenzene	21.3	0.10	"	20.0	107	75-125
p,m-Xylene	44.8	0.20	"	40.0	112	80-125
o-Xylene	21.6	0.10	"	20.0	108	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.418 " 0.400 104 50-150

Matrix Spike (1521002-MS1)

Source: P505048-01

Prepared: 18-May-15 Analyzed: 19-May-15

Benzene	22.3	0.10	mg/kg	20.0	ND	112	75-125
Toluene	20.2	0.10	"	20.0	0.11	101	70-125
Ethylbenzene	21.4	0.10	"	20.0	0.44	105	75-125
p,m-Xylene	46.3	0.20	"	40.0	3.98	106	80-125
o-Xylene	22.7	0.10	"	20.0	0.53	111	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.411 " 0.400 103 50-150

Matrix Spike Dup (1521002-MSD1)

Source: P505048-01

Prepared: 18-May-15 Analyzed: 19-May-15

Benzene	20.8	0.10	mg/kg	20.0	ND	104	75-125	7.09	15
Toluene	18.9	0.10	"	20.0	0.11	94.0	70-125	6.67	15
Ethylbenzene	20.1	0.10	"	20.0	0.44	98.5	75-125	6.20	15
p,m-Xylene	44.8	0.20	"	40.0	3.98	102	80-125	3.35	15
o-Xylene	21.5	0.10	"	20.0	0.53	105	75-125	5.41	15

Surrogate: 4-Bromochlorobenzene-PID 0.426 " 0.400 107 50-150

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laboratory@envirotech-inc.com



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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

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 1521001 - DRO Extraction EPA 3550M										
Blank (1521001-BLK1)				Prepared & Analyzed: 18-May-15						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	38.5		"	39.9		96.6	50-200			
LCS (1521001-BS1)				Prepared & Analyzed: 18-May-15						
Diesel Range Organics (C10-C28)	562	24.9	mg/kg	499		113	38-132			
Surrogate: o-Terphenyl	41.5		"	39.9		104	50-200			
Matrix Spike (1521001-MS1)				Source: P505048-01		Prepared & Analyzed: 18-May-15				
Diesel Range Organics (C10-C28)	834	24.9	mg/kg	499	106	146	38-132			SPK1
Surrogate: o-Terphenyl	48.1		"	39.9		121	50-200			
Matrix Spike Dup (1521001-MSD1)				Source: P505048-01		Prepared & Analyzed: 18-May-15				
Diesel Range Organics (C10-C28)	803	25.0	mg/kg	500	106	140	38-132	3.71	20	SPK1
Surrogate: o-Terphenyl	42.4		"	40.0		106	50-200			

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Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

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 1521002 - Purge and Trap EPA 5030A										
Blank (1521002-BLK1)				Prepared & Analyzed: 18-May-15						
Gasoline Range Organics (C6-C10)	ND	0.20	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.430		"	0.399		108	50-150			
LCS (1521002-BS1)				Prepared: 18-May-15 Analyzed: 19-May-15						
Gasoline Range Organics (C6-C10)	293	10.0	mg/kg	266		110	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.369		"	0.400		92.2	50-150			
Matrix Spike (1521002-MS1)				Source: P505048-01 Prepared: 18-May-15 Analyzed: 19-May-15						
Gasoline Range Organics (C6-C10)	363	9.99	mg/kg	266	104	97.4	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.406		"	0.400		102	50-150			
Matrix Spike Dup (1521002-MSD1)				Source: P505048-01 Prepared: 18-May-15 Analyzed: 19-May-15						
Gasoline Range Organics (C6-C10)	354	9.99	mg/kg	266	104	93.9	75-125	2.60	15	
Surrogate: 4-Bromochlorobenzene-FID	0.409		"	0.400		102	50-150			

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Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

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 1521003 - Anion Extraction EPA 300.0										
Blank (1521003-BLK1)				Prepared & Analyzed: 18-May-15						
Chloride	ND	9.94	mg/kg							
LCS (1521003-BS1)				Prepared & Analyzed: 18-May-15						
Chloride	512	9.85	mg/kg	493		104	90-110			
Matrix Spike (1521003-MS1)				Source: P505048-01 Prepared & Analyzed: 18-May-15						
Chloride	571	9.96	mg/kg	498	38.4	107	80-120			
Matrix Spike Dup (1521003-MSD1)				Source: P505048-01 Prepared & Analyzed: 18-May-15						
Chloride	565	9.90	mg/kg	495	38.4	106	80-120	1.17	20	

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Project Manager: J. Blagob

	1d
	3d

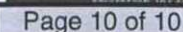
03143-0424

lab Only

Page 1 of 1

Relinquished by: (Signature) <i>[Signature]</i>	Date 5/15/2015	Time 11:46	Received by: (Signature) <i>[Signature]</i>	Date 5/15/15	Time 11:44	Lab Use Only **Received on Ice ☒ Y / N T1 <u>0.8</u> T2 <u>1.1</u> T3 _____ AVG Temp °C <u>0.95</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

PayKey: ZEVH01REME



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

03143-1089

Form C-138
Revised March 12, 2007

*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 Court * Farmington, NM 87401	
2. Originating Site: Gallegos Canyon Unit 85 well site - NE/4 Section 19, T28N, R12W May 2015	
3. Location of Material (Street Address, City, State or ULSTR): Gallegos Canyon Unit 85 well site - NE/4 Section 19, T28N, R12W or Physical Address: 200 Energy Court, Farmington, NM 87401	
1. Source and Description of Waste: Soil impacted from leak in condensate flow line Estimated Volume <u>100</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>2052</u> yd ³ bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Jeff Peace</u> <u>Jeff Peace</u> , representative or authorized agent for <u>BP America Production Company</u> do hereby Generator Signature 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 mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> ☒ Monthly ☐ Weekly ☐ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Jeff Peace</u> <u>Jeff Peace</u> , representative for <u>BP America</u> do hereby certify that Representative/Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
6. Transporter: <u>Crossfire, Rosenbaum</u>	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Soil Remediation Facility / Permit No. NM 01-0011

Address of Facility: # 43 CR 7175, South of Bloomfield, 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: Kendra Runung

TITLE: Waste Coordinator DATE: 5-5-15

SIGNATURE: Kendra Runung
Surface Waste Management Facility Authorized Agent

TELEPHONE: 505-632-1782 FAX NO.: 505-632-1876 or 505-334-1003

Client: BP AMERICA
 Project: GCU 85
 Sampler: J. Blagg
 Phone: 320-1183
 Email(s): JEFF PEACE / JEFF BLAGG / NELSON VELEZ
 Project Manager: JEFF BLAGG

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO# <u>P505022</u>		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number <u>03143-0424</u>											

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0												
SE CORNER 3-pt @ 4'-12'	5/11/2015	0845	SOIL	1 x 4 oz x COOL	X	X		X											1	Y
NE CORNER 3-pt @ 4'-12'	"	0850	"	"	X	X		X											2	Y

Relinquished by: (Signature) <u>JH Blagg</u>	Date <u>5/11/2015</u>	Time <u>1003</u>	Received by: (Signature) <u>Dene Zabin</u>	Date <u>5/11/15</u>	Time <u>10.03</u>	Lab Use Only **Received on Ice Y / N T1 <u>9.4</u> T2 <u>11.2</u> T3 _____ AVG Temp °C <u>10.3</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill BP
 Contact: Jeff Peace
 PAYEE: ZEVHOIREME



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 5/12/2015 11:08:00AM

Job Number: 03143-0424

Work Order: P505034

Project Name/Location: GCU 85

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/15/15

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 5/15/15 10:41 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended West Wall 3-pt @ 6'-13'	P505034-01A	Soil	05/12/15	05/12/15	Glass Jar, 4 oz.
Extended West Base @ 16'	P505034-02A	Soil	05/12/15	05/12/15	Glass Jar, 4 oz.

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

Extended West Wall 3-pt @ 6'-13'
P505034-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
Toluene	0.37	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
Ethylbenzene	0.63	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
p,m-Xylene	6.85	0.20	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
o-Xylene	1.52	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
Total Xylenes	8.37	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
Total BTEX	9.37	0.10	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1520019	05/12/15	05/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	165	9.99	mg/kg	1	1520019	05/12/15	05/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	218	25.0	mg/kg	1	1520018	05/12/15	05/12/15	EPA 8015D	
Surrogate: o-Terphenyl		97.1 %		50-200	1520018	05/12/15	05/12/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		103 %		50-150	1520019	05/12/15	05/12/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	64.7	9.90	mg/kg	1	1520020	05/13/15	05/13/15	EPA 300.0	

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

Extended West Base @ 16'
P505034-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
Toluene	0.47	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
Ethylbenzene	0.78	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
p,m-Xylene	8.55	0.20	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
o-Xylene	1.56	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
Total Xylenes	10.1	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
Total BTEX	11.4	0.10	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		119 %		50-150		1520019	05/12/15	05/12/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	172	9.98	mg/kg	1		1520019	05/12/15	05/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	156	25.0	mg/kg	1		1520018	05/12/15	05/12/15	EPA 8015D	
Surrogate: o-Terphenyl		96.7 %		50-200		1520018	05/12/15	05/12/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		114 %		50-150		1520019	05/12/15	05/12/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	57.6	9.86	mg/kg	1		1520020	05/13/15	05/13/15	EPA 300.0	

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

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
Batch 1520019 - Purge and Trap EPA 5030A										
Blank (1520019-BLK1)				Prepared: 12-May-15 Analyzed: 14-May-15						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.443		"	0.399		111	50-150			
LCS (1520019-BS1)				Prepared: 12-May-15 Analyzed: 14-May-15						
Benzene	20.7	0.10	mg/kg	20.0		104	75-125			
Toluene	18.8	0.10	"	20.0		94.1	70-125			
Ethylbenzene	19.3	0.10	"	20.0		96.6	75-125			
p,m-Xylene	41.4	0.20	"	40.0		103	80-125			
o-Xylene	20.1	0.10	"	20.0		100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.451		"	0.400		113	50-150			
Matrix Spike (1520019-MS1)				Source: P505032-01		Prepared: 12-May-15 Analyzed: 14-May-15				
Benzene	21.0	0.10	mg/kg	19.9	ND	105	75-125			
Toluene	19.1	0.10	"	19.9	1.37	89.2	70-125			
Ethylbenzene	19.6	0.10	"	19.9	3.11	82.6	75-125			
p,m-Xylene	41.6	0.20	"	39.9	7.07	86.7	80-125			
o-Xylene	20.3	0.10	"	19.9	3.45	84.7	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.466		"	0.399		117	50-150			
Matrix Spike Dup (1520019-MSD1)				Source: P505032-01		Prepared: 12-May-15 Analyzed: 14-May-15				
Benzene	20.9	0.10	mg/kg	20.0	ND	105	75-125	0.115	15	
Toluene	19.3	0.10	"	20.0	1.37	89.5	70-125	0.575	15	
Ethylbenzene	19.8	0.10	"	20.0	3.11	83.4	75-125	1.12	15	
p,m-Xylene	42.2	0.20	"	40.0	7.07	87.9	80-125	1.41	15	
o-Xylene	20.5	0.10	"	20.0	3.45	85.1	75-125	0.688	15	
Surrogate: 4-Bromochlorobenzene-PID	0.495		"	0.400		124	50-150			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

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 1520019 - Purge and Trap EPA 5030A										
Blank (1520019-BLK1)				Prepared: 12-May-15 Analyzed: 14-May-15						
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.392		"	0.399		98.2	50-150			
LCS (1520019-BS1)				Prepared: 12-May-15 Analyzed: 14-May-15						
Gasoline Range Organics (C6-C10)	269	10.0	mg/kg	266		101	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.402		"	0.400		100	50-150			
Matrix Spike (1520019-MS1)				Source: P505032-01		Prepared: 12-May-15 Analyzed: 14-May-15				
Gasoline Range Organics (C6-C10)	290	9.96	mg/kg	266	224	25.1	75-125			SPK1
Surrogate: 4-Bromochlorobenzene-FID	0.451		"	0.399		113	50-150			
Matrix Spike Dup (1520019-MSD1)				Source: P505032-01		Prepared: 12-May-15 Analyzed: 14-May-15				
Gasoline Range Organics (C6-C10)	286	10.0	mg/kg	266	224	23.3	75-125	1.51	15	SPK1
Surrogate: 4-Bromochlorobenzene-FID	0.509		"	0.400		127	50-150			

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

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 1520020 - Anion Extraction EPA 300.0										
Blank (1520020-BLK1)				Prepared & Analyzed: 13-May-15						
Chloride	ND	9.90	mg/kg							
LCS (1520020-BS1)				Prepared & Analyzed: 13-May-15						
Chloride	507	9.99	mg/kg	499		102	90-110			
Matrix Spike (1520020-MS1)				Source: P505034-01 Prepared & Analyzed: 13-May-15						
Chloride	596	9.98	mg/kg	499	64.7	107	80-120			
Matrix Spike Dup (1520020-MSD1)				Source: P505034-01 Prepared & Analyzed: 13-May-15						
Chloride	599	9.98	mg/kg	499	64.7	107	80-120	0.499	20	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-May-15 10:45

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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laboratory@envirotech-inc.com

Client: BP America
 Project: GCU 85
 Sampler: J-Brugg
 Phone: 505-320-1183
 Email(s): Jeff Pearce / Jeff Brugg / Nelson Velez
 Project Manager: Jeff Brugg

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0		
P505034							
Job Number							
03143-0424							

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	Correct Cont/Prsrv (s) Y/N
Extended West Wall 3-pt @ 6"-13"	5/12/2015	0932	Soil	1 x 4oz x cwc	X	X		X						1	Y
Extended West Base @ 16"	"	0940	"	"	X	X		X						2	Y

Relinquished by: (Signature) <u>Jeff Brugg</u>	Date <u>5/12/2015</u>	Time <u>1108</u>	Received by: (Signature) <u>Alma Zazari</u>	Date <u>05-12-15</u>	Time <u>11:08</u>	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <u>Y</u> / <u>N</u>	
						T1 <u>4.3</u>	T2 <u>7.8</u>
						AVG Temp °C <u> </u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing Info: <u>Bill BP</u> <u>contact: Jeff Pearce</u>	Pay Fee = <u>ZENVHOLREME</u>
---	------------------	---	------------------------------



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 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

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



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 5/15/2015 11:46:00AM

Job Number: 03143-0424

Work Order: P505048

Project Name/Location: GCU 85

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/20/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
20-May-15 11:09

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended East Wall- north End 3pt @ 4'-14'	P505048-01A	Soil	05/15/15	05/15/15	Glass Jar, 4 oz.
East Wall- South End 3pt @ 4'-14'	P505048-02A	Soil	05/15/15	05/15/15	Glass Jar, 4 oz.

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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

NE Corner 3-pt @ 4'-12'

P505022-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
p,m-Xylene	0.81	0.20	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total Xylenes	0.81	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total BTEX	0.81	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %		50-150		1520002	05/11/15	05/11/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	22.4	10.0	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: o-Terphenyl		95.2 %		50-200		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		87.6 %		50-150		1520002	05/11/15	05/11/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	29.2	9.97	mg/kg	1		1520003	05/11/15	05/11/15	EPA 300.0	

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Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

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 1520002 - Purge and Trap EPA 5030A

Blank (1520002-BLK1)

Prepared & Analyzed: 11-May-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.405		"	0.400		101	50-150			

LCS (1520002-BS1)

Prepared: 11-May-15 Analyzed: 12-May-15

Benzene	22.8	0.10	mg/kg	20.0		114	75-125			
Toluene	20.9	0.10	"	20.0		105	70-125			
Ethylbenzene	21.4	0.10	"	20.0		107	75-125			
p,m-Xylene	45.2	0.20	"	40.0		113	80-125			
o-Xylene	22.4	0.10	"	20.0		112	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.476		"	0.400		119	50-150			

Matrix Spike (1520002-MS1)

Source: P505020-01

Prepared & Analyzed: 11-May-15

Benzene	21.4	0.10	mg/kg	19.9	0.11	107	75-125			
Toluene	22.3	0.10	"	19.9	1.61	104	70-125			
Ethylbenzene	25.1	0.10	"	19.9	4.12	105	75-125			
p,m-Xylene	71.3	0.20	"	39.9	33.9	93.8	80-125			
o-Xylene	28.9	0.10	"	19.9	6.06	114	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.448		"	0.399		112	50-150			

Matrix Spike Dup (1520002-MSD1)

Source: P505020-01

Prepared & Analyzed: 11-May-15

Benzene	22.5	0.10	mg/kg	19.9	0.11	113	75-125	5.01	15	
Toluene	23.1	0.10	"	19.9	1.61	108	70-125	3.41	15	
Ethylbenzene	25.8	0.10	"	19.9	4.12	109	75-125	3.04	15	
p,m-Xylene	72.3	0.20	"	39.8	33.9	96.5	80-125	1.45	15	
o-Xylene	29.9	0.10	"	19.9	6.06	120	75-125	3.55	15	
Surrogate: 4-Bromochlorobenzene-PID	0.463		"	0.398		116	50-150			

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Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

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 1520001 - DRO Extraction EPA 3550M										
Blank (1520001-BLK1)				Prepared & Analyzed: 11-May-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	38.9		"	39.9		97.4	50-200			
LCS (1520001-BS1)				Prepared & Analyzed: 11-May-15						
Diesel Range Organics (C10-C28)	592	25.0	mg/kg	500		118	38-132			
Surrogate: <i>o</i> -Terphenyl	41.5		"	40.0		104	50-200			
Matrix Spike (1520001-MS1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Diesel Range Organics (C10-C28)	986	25.0	mg/kg	499	381	121	38-132			
Surrogate: <i>o</i> -Terphenyl	43.3		"	39.9		108	50-200			
Matrix Spike Dup (1520001-MSD1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Diesel Range Organics (C10-C28)	975	25.0	mg/kg	500	381	119	38-132	1.11	20	
Surrogate: <i>o</i> -Terphenyl	42.6		"	40.0		107	50-200			

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Tulsa OK, 74121-2024

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

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 1520002 - Purge and Trap EPA 5030A										
Blank (1520002-BLK1)				Prepared & Analyzed: 11-May-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.359		"	0.400		89.8	50-150			
LCS (1520002-BS1)				Prepared: 11-May-15 Analyzed: 12-May-15						
Gasoline Range Organics (C6-C10)	318	9.99	mg/kg	266		119	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.442		"	0.400		110	50-150			
Matrix Spike (1520002-MS1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Gasoline Range Organics (C6-C10)	653	9.97	mg/kg	266	443	79.2	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.413		"	0.399		104	50-150			
Matrix Spike Dup (1520002-MSD1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Gasoline Range Organics (C6-C10)	663	9.96	mg/kg	265	443	83.0	75-125	1.52	15	
Surrogate: 4-Bromochlorobenzene-FID	0.436		"	0.398		109	50-150			

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laboratory@envirotech-inc.com



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Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

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 1520003 - Anion Extraction EPA 300.0										
Blank (1520003-BLK1)				Prepared & Analyzed: 11-May-15						
Chloride	ND	9.93	mg/kg							
LCS (1520003-BS1)				Prepared & Analyzed: 11-May-15						
Chloride	506	9.89	mg/kg	495		102	90-110			
Matrix Spike (1520003-MS1)				Source: P505020-01 Prepared & Analyzed: 11-May-15						
Chloride	620	9.98	mg/kg	499	91.0	106	80-120			
Matrix Spike Dup (1520003-MSD1)				Source: P505020-01 Prepared & Analyzed: 11-May-15						
Chloride	622	9.85	mg/kg	493	91.0	108	80-120	0.267	20	

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laboratory@envirotech-inc.com



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Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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

envirotech-inc.com
laboratory@envirotech-inc.com

Client: BP AMERICA
 Project: GCU 85
 Sampler: J. BLAGG
 Phone: 505-320-1183
 Email(s): JEFF PEACE / JEFF BLAGG / NELSON VELAZ
 Project Manager: JEFF BLAGG

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsrv (s) Y/N
P505015											
Job Number		031213-0424									

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0							Lab Number	Correct Cont/Prsrv (s) Y/N
3-PC South Well @ 7'-12'	5/7/2015	1140	SOIL	1 x 403 x COOL	X	X		X							1	X
3-PC SOUTH BASE @ 15'	"	1145	"	"	X	X		X							2	X
3-PC West Wall (South) @ 7'-12'	"	1150	"	"	X	X		X							3	X

Relinquished by: (Signature) <i>Jeff Blagg</i>	Date 5/7/2015	Time 1346	Received by: (Signature) <i>Jeff Blagg</i>	Date 5/7/2015	Time 1346	Lab Use Only					
Relinquished by: (Signature) <i>Jeff Blagg</i>	Date 5/7/2015	Time 1417	Received by: (Signature) <i>Jeff Blagg</i>	Date 5/7/15	Time 1417	**Received on Ice ☒ Y ☐ N T1 <u>14.1</u> T2 <u>13.2</u> T3 <u>12.6</u> AVG Temp °C _____					

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing info: <u>Bill BP</u> <u>BILLING INFO TO FOLLOW</u>
---	------------------	---



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 5/8/2015 10:36:00AM

Job Number: 03143-0424

Work Order: P505020

Project Name/Location: GCU #85

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/12/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Northwest Base 3-pt @ 15'	P505020-01A	Solid	05/08/15	05/08/15	Glass Jar, 4 oz.
North Wall - West Side 3-pt @ 4'-12'	P505020-02A	Solid	05/08/15	05/08/15	Glass Jar, 4 oz.
West Wall - North Side 3-pt @ 5'-12'	P505020-03A	Solid	05/08/15	05/08/15	Glass Jar, 4 oz.

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laboratory@envirotech-inc.com



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PO Box 22024
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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

Northwest Base 3-pt @ 15'
P505020-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.11	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
Toluene	1.61	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
Ethylbenzene	4.12	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
p,m-Xylene	33.9	0.20	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
o-Xylene	6.06	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
Total Xylenes	39.9	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
Total BTEX	45.8	0.10	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		111 %		50-150	1520002	05/11/15	05/11/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	443	9.97	mg/kg	1	1520002	05/11/15	05/11/15	EPA 8015D	
Diesel Range Organics (C10-C28)	381	25.0	mg/kg	1	1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: o-Terphenyl		100 %		50-200	1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		99.4 %		50-150	1520002	05/11/15	05/11/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	91.0	9.94	mg/kg	1	1520003	05/11/15	05/11/15	EPA 300.0	

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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

North Wall - West Side 3-pt @ 4'-12'
P505020-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
p,m-Xylene	0.94	0.20	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
o-Xylene	0.20	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total Xylenes	1.14	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total BTEX	1.14	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		117 %		50-150		1520002	05/11/15	05/11/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	17.3	9.99	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: o-Terphenyl		97.8 %		50-200		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		101 %		50-150		1520002	05/11/15	05/11/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	15.3	9.95	mg/kg	1		1520003	05/11/15	05/11/15	EPA 300.0	

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laboratory@envirotech-inc.com



BP America Production Co.
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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

West Wall - North Side 3-pt @ 5'-12'
P505020-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Toluene	0.28	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Ethylbenzene	0.69	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
p,m-Xylene	5.87	0.20	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
o-Xylene	1.39	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total Xylenes	7.25	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total BTEX	8.22	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		116 %		50-150		1520002	05/11/15	05/11/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	137	9.97	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8015D	
Diesel Range Organics (C10-C28)	142	25.0	mg/kg	1		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: o-Terphenyl		101 %		50-200		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		111 %		50-150		1520002	05/11/15	05/11/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	31.1	9.93	mg/kg	1		1520003	05/11/15	05/11/15	EPA 300.0	

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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1520002 - Purge and Trap EPA 5030A

Blank (1520002-BLK1)

Prepared & Analyzed: 11-May-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.405		"	0.400		101	50-150			

LCS (1520002-BS1)

Prepared: 11-May-15 Analyzed: 12-May-15

Benzene	22.8	0.10	mg/kg	20.0		114	75-125			
Toluene	20.9	0.10	"	20.0		105	70-125			
Ethylbenzene	21.4	0.10	"	20.0		107	75-125			
p,m-Xylene	45.2	0.20	"	40.0		113	80-125			
o-Xylene	22.4	0.10	"	20.0		112	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.476		"	0.400		119	50-150			

Matrix Spike (1520002-MS1)

Source: P505020-01

Prepared & Analyzed: 11-May-15

Benzene	21.4	0.10	mg/kg	19.9	0.11	107	75-125			
Toluene	22.3	0.10	"	19.9	1.61	104	70-125			
Ethylbenzene	25.1	0.10	"	19.9	4.12	105	75-125			
p,m-Xylene	71.3	0.20	"	39.9	33.9	93.8	80-125			
o-Xylene	28.9	0.10	"	19.9	6.06	114	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.448		"	0.399		112	50-150			

Matrix Spike Dup (1520002-MSD1)

Source: P505020-01

Prepared & Analyzed: 11-May-15

Benzene	22.5	0.10	mg/kg	19.9	0.11	113	75-125	5.01	15	
Toluene	23.1	0.10	"	19.9	1.61	108	70-125	3.41	15	
Ethylbenzene	25.8	0.10	"	19.9	4.12	109	75-125	3.04	15	
p,m-Xylene	72.3	0.20	"	39.8	33.9	96.5	80-125	1.45	15	
o-Xylene	29.9	0.10	"	19.9	6.06	120	75-125	3.55	15	
Surrogate: 4-Bromochlorobenzene-PID	0.463		"	0.398		116	50-150			

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Tulsa OK, 74121-2024

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

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 1520001 - DRO Extraction EPA 3550M										
Blank (1520001-BLK1)				Prepared & Analyzed: 11-May-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	38.9		"	39.9		97.4	50-200			
LCS (1520001-BS1)				Prepared & Analyzed: 11-May-15						
Diesel Range Organics (C10-C28)	592	25.0	mg/kg	500		118	38-132			
Surrogate: o-Terphenyl	41.5		"	40.0		104	50-200			
Matrix Spike (1520001-MS1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Diesel Range Organics (C10-C28)	986	25.0	mg/kg	499	381	121	38-132			
Surrogate: o-Terphenyl	43.3		"	39.9		108	50-200			
Matrix Spike Dup (1520001-MSD1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Diesel Range Organics (C10-C28)	975	25.0	mg/kg	500	381	119	38-132	1.11	20	
Surrogate: o-Terphenyl	42.6		"	40.0		107	50-200			

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BP America Production Co.
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Tulsa OK, 74121-2024

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

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 1520002 - Purge and Trap EPA 5030A										
Blank (1520002-BLK1)				Prepared & Analyzed: 11-May-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.359		"	0.400		89.8	50-150			
LCS (1520002-BS1)				Prepared: 11-May-15 Analyzed: 12-May-15						
Gasoline Range Organics (C6-C10)	318	9.99	mg/kg	266		119	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.442		"	0.400		110	50-150			
Matrix Spike (1520002-MS1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Gasoline Range Organics (C6-C10)	653	9.97	mg/kg	266	443	79.2	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.413		"	0.399		104	50-150			
Matrix Spike Dup (1520002-MSD1)				Source: P505020-01		Prepared & Analyzed: 11-May-15				
Gasoline Range Organics (C6-C10)	663	9.96	mg/kg	265	443	83.0	75-125	1.52	15	
Surrogate: 4-Bromochlorobenzene-FID	0.436		"	0.398		109	50-150			

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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

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 1520003 - Anion Extraction EPA 300.0										
Blank (1520003-BLK1)				Prepared & Analyzed: 11-May-15						
Chloride	ND	9.93	mg/kg							
LCS (1520003-BS1)				Prepared & Analyzed: 11-May-15						
Chloride	506	9.89	mg/kg	495		102	90-110			
Matrix Spike (1520003-MS1)				Source: P505020-01 Prepared & Analyzed: 11-May-15						
Chloride	620	9.98	mg/kg	499	91.0	106	80-120			
Matrix Spike Dup (1520003-MSD1)				Source: P505020-01 Prepared & Analyzed: 11-May-15						
Chloride	622	9.85	mg/kg	493	91.0	108	80-120	0.267	20	

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PO Box 22024
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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:17

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: BP America
 Project: GLU 85
 Sampler: J. Blago
 Phone: 505-320-1183
 Email(s): Jeff Peace/Jeff Blago/Nelson Velez
 Project Manager: J. Blago

RUSH?
☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsv (s) Y/N
P 505020											
Job Number		03143-0424									

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0												
NORTHWEST BASE 3-pt @ 15'	5/8/2015	0830	SOIL	1 x 4oz x COOL	X	X		X											1	✓
NORTH Wall - west side 3-pt @ 4'-12'	"	0837	"	"	X	X		X											2	✓
WEST wall - NORTH side 3-pt @ 5'-12'	"	0842	"	"	X	X		X											3	✓

Relinquished by: (Signature) <u>Jeff Blago</u>	Date <u>5/8/2015</u>	Time <u>1036</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/8/15</u>	Time <u>1036</u>	Lab Use Only					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice (Y) / N T1 <u>-2.8</u> T2 <u>-2.1</u> T3 <u>-3.1</u> AVG Temp °C _____					

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing info: <u>BILL BA</u> <u>PARKER: ZEVHOIREME</u>	CONTACT: <u>JEFF Peace</u>
--	------------------	---	----------------------------



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 5/11/2015 10:03:00AM

Job Number: 03143-0424

Work Order: P505022

Project Name/Location: GCU 85

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/12/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: GCU 85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-May-15 14:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SE Corner 3-pt @ 4'-12'	P505022-01A	Soil	05/11/15	05/11/15	Glass Jar, 4 oz.
NE Corner 3-pt @ 4'-12'	P505022-02A	Soil	05/11/15	05/11/15	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: GCU 85 Project Number: 03143-0424 Project Manager: Jeff Blagg	Reported: 12-May-15 14:23
---	---	------------------------------

SE Corner 3-pt @ 4'-12'
P505022-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Ethylbenzene	0.15	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
p,m-Xylene	1.66	0.20	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
o-Xylene	0.27	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total Xylenes	1.93	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Total BTEX	2.08	0.10	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150		1520002	05/11/15	05/11/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	47.5	10.0	mg/kg	1		1520002	05/11/15	05/11/15	EPA 8015D	
Diesel Range Organics (C10-C28)	70.4	24.9	mg/kg	1		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: o-Terphenyl		95.8 %		50-200		1520001	05/11/15	05/11/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.1 %		50-150		1520002	05/11/15	05/11/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	28.4	9.93	mg/kg	1		1520003	05/11/15	05/11/15	EPA 300.0	

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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

3-PC South Base @ 15'
P505015-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.66	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Toluene	3.50	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Ethylbenzene	3.01	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
p,m-Xylene	24.4	0.20	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
o-Xylene	2.96	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total Xylenes	27.3	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total BTEX	34.5	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1519030	05/07/15	05/08/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	329	10.0	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8015D	
Diesel Range Organics (C10-C28)	248	25.0	mg/kg	1	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: o-Terphenyl		92.6 %		50-200	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		86.4 %		50-150	1519030	05/07/15	05/08/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	67.6	9.33	mg/kg	0.9	1519031	05/08/15	05/08/15	EPA 300.0	

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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

3-PC West Wall (south) @ 7'-12'
P505015-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Toluene	0.23	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Ethylbenzene	0.58	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
p,m-Xylene	3.10	0.20	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
o-Xylene	0.60	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total Xylenes	3.70	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Total BTEX	4.51	0.10	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %		50-150	1519030	05/07/15	05/08/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	108	9.99	mg/kg	1	1519030	05/07/15	05/08/15	EPA 8015D	
Diesel Range Organics (C10-C28)	198	24.9	mg/kg	1	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: o-Terphenyl		99.1 %		50-200	1519029	05/07/15	05/08/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		90.8 %		50-150	1519030	05/07/15	05/08/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	41.2	9.71	mg/kg	1	1519031	05/08/15	05/08/15	EPA 300.0	

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Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

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 1519030 - Purge and Trap EPA 5030A

Blank (1519030-BLK1)

Prepared: 07-May-15 Analyzed: 08-May-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.386		"	0.400		96.6	50-150			

LCS (1519030-BS1)

Prepared: 07-May-15 Analyzed: 08-May-15

Benzene	20.3	0.10	mg/kg	20.0		102	75-125			
Toluene	19.9	0.10	"	20.0		99.7	70-125			
Ethylbenzene	19.6	0.10	"	20.0		98.2	75-125			
p,m-Xylene	39.6	0.20	"	39.9		99.1	80-125			
o-Xylene	19.0	0.10	"	20.0		95.0	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.360		"	0.399		90.2	50-150			

Matrix Spike (1519030-MS1)

Source: P505015-01

Prepared: 07-May-15 Analyzed: 08-May-15

Benzene	20.9	0.10	mg/kg	20.0	ND	105	75-125			
Toluene	21.0	0.10	"	20.0	0.12	104	70-125			
Ethylbenzene	21.6	0.10	"	20.0	0.45	106	75-125			
p,m-Xylene	44.9	0.20	"	39.9	2.26	107	80-125			
o-Xylene	21.7	0.10	"	20.0	0.45	106	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.396		"	0.399		99.1	50-150			

Matrix Spike Dup (1519030-MSD1)

Source: P505015-01

Prepared: 07-May-15 Analyzed: 08-May-15

Benzene	20.9	0.10	mg/kg	20.0	ND	104	75-125	0.315	15	
Toluene	21.0	0.10	"	20.0	0.12	104	70-125	0.220	15	
Ethylbenzene	21.3	0.10	"	20.0	0.45	105	75-125	1.29	15	
p,m-Xylene	44.1	0.20	"	40.0	2.26	105	80-125	1.88	15	
o-Xylene	21.4	0.10	"	20.0	0.45	105	75-125	1.02	15	
Surrogate: 4-Bromochlorobenzene-PID	0.380		"	0.400		95.2	50-150			

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

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

envirotech-inc.com
laboratory@envirotech-inc.com



BP America Production Co.	Project Name:	GCU #85	Reported: 11-May-15 14:38
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 1519029 - DRO Extraction EPA 3550M										
Blank (1519029-BLK1)				Prepared: 07-May-15 Analyzed: 08-May-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	35.7		"	39.9		89.4	50-200			
LCS (1519029-BS1)				Prepared: 07-May-15 Analyzed: 08-May-15						
Diesel Range Organics (C10-C28)	599	24.9	mg/kg	499		120	38-132			
Surrogate: o-Terphenyl	42.3		"	39.9		106	50-200			
Matrix Spike (1519029-MS1)				Source: P505015-01		Prepared: 07-May-15 Analyzed: 08-May-15				
Diesel Range Organics (C10-C28)	754	24.9	mg/kg	499	107	130	38-132			
Surrogate: o-Terphenyl	41.7		"	39.9		105	50-200			
Matrix Spike Dup (1519029-MSD1)				Source: P505015-01		Prepared: 07-May-15 Analyzed: 08-May-15				
Diesel Range Organics (C10-C28)	703	24.9	mg/kg	499	107	119	38-132	7.03	20	
Surrogate: o-Terphenyl	40.4		"	39.9		101	50-200			

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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

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 1519030 - Purge and Trap EPA 5030A										
Blank (1519030-BLK1)				Prepared: 07-May-15 Analyzed: 08-May-15						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.342		"	0.400		85.6	50-150			
LCS (1519030-BS1)				Prepared: 07-May-15 Analyzed: 08-May-15						
Gasoline Range Organics (C6-C10)	262	9.98	mg/kg	266		98.6	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.323		"	0.399		81.0	50-150			
Matrix Spike (1519030-MS1)				Source: P505015-01		Prepared: 07-May-15 Analyzed: 08-May-15				
Gasoline Range Organics (C6-C10)	365	9.98	mg/kg	266	67.7	112	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.368		"	0.399		92.1	50-150			
Matrix Spike Dup (1519030-MSD1)				Source: P505015-01		Prepared: 07-May-15 Analyzed: 08-May-15				
Gasoline Range Organics (C6-C10)	358	9.99	mg/kg	266	67.7	109	75-125	1.87	15	
Surrogate: 4-Bromochlorobenzene-FID	0.384		"	0.400		96.2	50-150			

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envirotech-inc.com

laboratory@envirotech-inc.com



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

Project Name: GCU #85
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-May-15 14:38

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 1519031 - Anion Extraction EPA 300.0										
Blank (1519031-BLK1)				Prepared & Analyzed: 08-May-15						
Chloride	ND	9.64	mg/kg							
LCS (1519031-BS1)				Prepared & Analyzed: 08-May-15						
Chloride	479	9.41	mg/kg	471		102	90-110			
Matrix Spike (1519031-MS1)				Source: P505015-01 Prepared & Analyzed: 08-May-15						
Chloride	524	9.84	mg/kg	492	15.4	103	80-120			
Matrix Spike Dup (1519031-MSD1)				Source: P505015-01 Prepared & Analyzed: 08-May-15						
Chloride	512	9.53	mg/kg	477	15.4	104	80-120	2.39	20	

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envirotech-inc.com

laboratory@envirotech-inc.com