

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

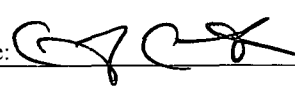
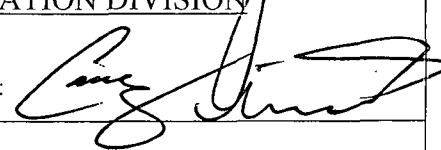
Name of Company: BP America Production Company	Contact: Courtney Cochran	
Address: 200 Energy Ct. Farmington, NM 87401	Telephone No.: 505-326-9457	
Facility Name: Mudge LS 6	Facility Type: Natural Gas Well	
Surface Owner: Federal	Mineral Owner: Federal	API No.: 3004510843

LOCATION OF RELEASE

Unit Letter M	Section 11	Township T31N	Range R11W	Feet from the 1033	North/South Line South	Feet from the 869	East/West Line West	County: San Juan
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Latitude 36.90882 Longitude 107.96572

NATURE OF RELEASE

Type of Release: unknown hydrocarbon	Volume of Release: unknown	Volume Recovered: none
Source of Release: unknown – possible BGT	Date and Hour of Occurrence: unknown-historical in nature	Date and Hour of Discovery: 8/11/2014
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 the closure of both a 95 bbl and 21 bbl BGT on location laboratory analysis revealed levels above the standards set forth in the NMAC. A preliminary investigation was conducted and samples were taken from several test holes on location. The test hole sampling revealed minimal impacts on location. All preliminary laboratory analysis is included with this report.		
Describe Area Affected and Cleanup Action Taken.* The BGT to LPT work is currently on hold while the team reviews remedial action possibilities.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Courtney Cochran	Approved by Environmental Specialist: 	
Title: Environmental Advisor	Approval Date: 8/20/14	Expiration Date:
E-mail Address: Courtney.Cochran@bp.com	Conditions of Approval:	Attached ☐
Date: 8/14/2014 Phone: 505-326-9457		

* Attach Additional Sheets If Necessary

#NCS1423#254576

25



Analytical Report

Report Summary

Client: BP America Production Co.
Chain Of Custody Number: 17306
Samples Received: 8/8/2014 3:19:00PM
Job Number: 03143-0424
Work Order: P408027
Project Name/Location: Mudge LS 6

OIL CONS. DIV DIST. S

AUG 14 2014

Entire Report Reviewed By: Draft Date: 8/11/14
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: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-Aug-14 13:45

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
95 BGT 5-pt @ 6'	P408027-01A	Soil	08/08/14	08/08/14	Glass Jar, 4 oz.
21 BGT 5-pt @7'	P408027-02A	Soil	08/08/14	08/08/14	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Mudge LS 6 Project Number: 03143-0424 Project Manager: Jeff Blagg	Reported: 11-Aug-14 13:45
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DRAFT: 95 BGT 5-pt @ 6'
P408027-01 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
DRAFT: Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
Toluene	1.20	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
Ethylbenzene	1.20	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
p,m-Xylene	22.2	0.10	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
o-Xylene	5.60	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
Total Xylenes	27.8	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
Total BTEX	30.2	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		152 %		50-150	1433001	08/11/14	08/11/14	EPA 8021B		
Surrogate: Bromochlorobenzene		140 %		50-150	1433001	08/11/14	08/11/14	EPA 8021B		
DRAFT: Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	289	4.94	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8015D		
Diesel Range Organics (C10-C28)	842	29.9	mg/kg	1	1433002	08/11/14	08/11/14	EPA 8015D		
Surrogate: Benzo[a]pyrene		92.9 %		50-200	1433002	08/11/14	08/11/14	EPA 8015D		
DRAFT: Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	2720	34.9	mg/kg	1	1433004	08/11/14	08/11/14	EPA 418.1		
DRAFT: Cation/Anion Analysis										
Chloride	ND	9.96	mg/kg	1	1433003	08/11/14	08/11/14	EPA 300.0		

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BP America Production Co.	Project Name:	Mudge LS 6	Reported: 11-Aug-14 13:45
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

DRAFT: 21 BGT 5-pt @7'
P408027-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DRAFT: Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8021B	
Surrogate: Bromochlorobenzene		116 %		50-150	1433001	08/11/14	08/11/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.3 %		50-150	1433001	08/11/14	08/11/14	EPA 8021B	
DRAFT: Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	24.3	4.97	mg/kg	1	1433001	08/11/14	08/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	312	24.4	mg/kg	1	1433002	08/11/14	08/11/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		127 %		50-200	1433002	08/11/14	08/11/14	EPA 8015D	
DRAFT: Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	3550	35.0	mg/kg	1	1433004	08/11/14	08/11/14	EPA 418.1	
DRAFT: Cation/Anion Analysis									
Chloride	ND	9.92	mg/kg	1	1433003	08/11/14	08/11/14	EPA 300.0	

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BP America Production Co.	Project Name:	Mudge LS 6	Reported: 11-Aug-14 13:45
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

DRAFT: 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 1433001 - Purge and Trap EPA 5030A

Blank (1433001-BLK1)				Prepared & Analyzed: 11-Aug-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	48.0		ug/L	50.0		95.9	50-150			
Surrogate: Bromochlorobenzene	48.4		"	50.0		96.9	50-150			

Duplicate (1433001-DUP1)				Source: P408026-01		Prepared & Analyzed: 11-Aug-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	49.2		ug/L	50.0		98.3	50-150			
Surrogate: Bromochlorobenzene	51.2		"	50.0		102	50-150			

Matrix Spike (1433001-MS1)				Source: P408026-01		Prepared & Analyzed: 11-Aug-14				
Benzene	45.8		ug/L	50.0	ND	91.6	39-150			
Toluene	46.2		"	50.0	ND	92.4	46-148			
Ethylbenzene	47.1		"	50.0	ND	94.3	32-160			
p,m-Xylene	94.0		"	100	ND	94.0	46-148			
o-Xylene	47.7		"	50.0	ND	95.3	46-148			
Surrogate: 1,3-Dichlorobenzene	48.1		"	50.0		96.3	50-150			
Surrogate: Bromochlorobenzene	50.4		"	50.0		101	50-150			

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

 Project Name: Mudge LS 6
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 11-Aug-14 13:45

DRAFT: 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
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Batch 1433001 - Purge and Trap EPA 5030A
Blank (1433001-BLK1)

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) ND 4.98 mg/kg

Duplicate (1433001-DUP1)

Source: P408026-01

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) ND 4.98 mg/kg ND 30

Matrix Spike (1433001-MS1)

Source: P408026-01

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) 0.41 mg/L 0.450 ND 91.8 75-125

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Mudge LS 6 Project Number: 03143-0424 Project Manager: Jeff Blagg	Reported: 11-Aug-14 13:45
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DRAFT: 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 1433002 - DRO Extraction EPA 3550M										
Blank (1433002-BLK1)				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	20.4		"	20.0		102	50-200			
LCS (1433002-BS1)				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	456	25.0	mg/kg	499		91.2	38-132			
Surrogate: Benzo[a]pyrene	21.5		"	20.0		108	50-200			
Matrix Spike (1433002-MS1)				Source: P408027-02		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	919	25.0	mg/kg	499	312	121	38-132			
Surrogate: Benzo[a]pyrene	18.9		"	20.0		94.7	50-200			
Matrix Spike Dup (1433002-MSD1)				Source: P408027-02		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	1060	24.9	mg/kg	499	312	150	38-132	14.1	20	
Surrogate: Benzo[a]pyrene	20.7		"	19.9		104	50-200			

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

 Project Name: Mudge LS 6
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 11-Aug-14 13:45

DRAFT: Total Petroleum Hydrocarbons by 418.1 - 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 1433004 - 418 Freon Extraction
Blank (1433004-BLK1)

Prepared & Analyzed: 11-Aug-14

Total Petroleum Hydrocarbons ND 34.9 mg/kg

Duplicate (1433004-DUP1)

Source: P408027-02

Prepared & Analyzed: 11-Aug-14

Total Petroleum Hydrocarbons 3600 35.0 mg/kg 3550 1.45 30

Matrix Spike (1433004-MS1)

Source: P408027-02

Prepared & Analyzed: 11-Aug-14

Total Petroleum Hydrocarbons 4760 34.9 mg/kg 2020 3550 60.0 80-120

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-Aug-14 13:45

DRAFT: Cation/Anion Analysis - 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 1433003 - Anion Extraction EPA 300.0

Blank (1433003-BLK1)

Prepared & Analyzed: 11-Aug-14

Chloride ND 9.83 mg/kg

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
11-Aug-14 13:45

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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17306

[illegible]



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17310

Samples Received: 8/11/2014 4:11:00PM

Job Number: 03143-0424

Work Order: P408036

Project Name/Location: Mudge LS 6

Entire Report Reviewed By:

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

Date: 8/13/14

Tim Cain, Laboratory Manager

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TH-6 @ 6'	P408036-01A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-7 @ 8'	P408036-02A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-8 @ 8'	P408036-03A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-9 @ 10'	P408036-04A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-10 @ 7.5'	P408036-05A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-12 @ 11'	P408036-06A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.
TH-14 @ 10'	P408036-07A	Soil	08/11/14	08/11/14	Glass Jar, 4 oz.

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-6 @ 6'
P408036-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	137	29.9	mg/kg	1		1433005	08/11/14	08/11/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		139 %		50-200		1433005	08/11/14	08/11/14	EPA 8015D	

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-7 @ 8'
P408036-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1433005	08/12/14	08/12/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		109 %		50-200	1433005	08/12/14	08/12/14	EPA 8015D	

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-8 @ 8'
P408036-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1433005	08/12/14	08/12/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		117 %		50-200		1433005	08/12/14	08/12/14	EPA 8015D	

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BP America Production Co.	Project Name:	Mudge LS 6	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	13-Aug-14 11:40

TH-9 @ 10'
P408036-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1		1433005	08/12/14	08/12/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		129 %		50-200		1433005	08/12/14	08/12/14	EPA 8015D	

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

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-10 @ 7.5'
P408036-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	7.79	5.00	mg/kg	1	1433001	08/11/14	08/12/14	EPA 8015D		
Diesel Range Organics (C10-C28)	67.5	30.0	mg/kg	1	1433005	08/12/14	08/12/14	EPA 8015D		
Surrogate: Benzo[a]pyrene		132 %		50-200	1433005	08/12/14	08/12/14	EPA 8015D		

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-12 @ 11'
P408036-06 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	294	30.0	mg/kg	1		1433005	08/12/14	08/12/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		124 %		50-200		1433005	08/12/14	08/12/14	EPA 8015D	

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Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

TH-14 @ 10'
P408036-07 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	l	1433001	08/11/14	08/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	l	1433005	08/12/14	08/12/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		151 %		50-200	1433005	08/12/14	08/12/14	EPA 8015D	

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Tulsa OK, 74121-2024

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

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 1433001 - Purge and Trap EPA 5030A

Blank (1433001-BLK1)

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) ND 4.98 mg/kg

Duplicate (1433001-DUP1)

Source: P408026-01

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) ND 4.98 mg/kg ND 30

Matrix Spike (1433001-MS1)

Source: P408026-01

Prepared & Analyzed: 11-Aug-14

Gasoline Range Organics (C6-C10) 0.41 mg/L 0.450 ND 91.8 75-125

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

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

envirotech-inc.com

laboratory@envirotech-inc.com



BP America Production Co.	Project Name:	Mudge LS 6	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	13-Aug-14 11:40

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 1433005 - DRO Extraction EPA 3550M										
Blank (1433005-BLK1)				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	19.5		"	20.0		97.4	50-200			
LCS (1433005-BS1)				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	504	24.9	mg/kg	498		101	38-132			
Surrogate: Benzo[a]pyrene	21.3		"	19.9		107	50-200			
Matrix Spike (1433005-MS1)				Source: P408036-01		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	731	29.9	mg/kg	499	137	119	38-132			
Surrogate: Benzo[a]pyrene	22.7		"	20.0		114	50-200			
Matrix Spike Dup (1433005-MSD1)				Source: P408036-01		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	748	29.9	mg/kg	499	137	122	38-132	2.29	20	
Surrogate: Benzo[a]pyrene	26.9		"	20.0		135	50-200			

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Tulsa OK, 74121-2024

Project Name: Mudge LS 6
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
13-Aug-14 11:40

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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CHAIN OF CUSTODY RECORD

17310

Client: BP/BLAGG ENGINEERS		Project Name / Location: MUDGE LS 6		ANALYSIS / PARAMETERS																																													
Email results to: jeffblagg@BP.COM peace.jeffrey@BP.COM		Sampler Name: J. Blagg		<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>PCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCPLP with H/P</th> <th>CO Table 910-1</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCPLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals															Cation / Anion	RCI	TCPLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																				
Client Phone No.: 505-320-1183		Client No.: 03143-0124																																															
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCPLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact																												
					HNO ₃	HCl																																											
TH-6 @ 6'	8/11/2014	1038	P408036-01	1 x 40±				X													Y	Y																											
TH-7 @ 8'	"	1048	-02	"				X																																									
TH-8 @ 8'	"	1100	-03	"				X																																									
TH-9 @ 10'	"	1109	-04	"				X																																									
TH-10 @ 7½'	"	1120	-05	"				X																																									
TH-12 @ 11'	"	1203	-06	"				X																																									
TH-14 @ 10'	"	1230	-07	"				X																																									
								3 DAY Turnaround Bill BP: Parkey: ZEVH(01)BLTZ																																									
Relinquished by: (Signature) <i>Jeff Berg</i>					Date 8/11/2014	Time 1611	Received by: (Signature) <i>[Signature]</i>					Date 8/11/14	Time 1611																																				
Relinquished by: (Signature)							Received by: (Signature)																																										
Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____ ☐ Sample(s) dropped off after hours to secure drop off area.																																																	



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9.3, 10.1 8.6

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