

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

JAN 07 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Neil A 6A	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004522843	

LOCATION OF RELEASE

Unit Letter O	Section 33	Township 32N	Range 11W	Feet from the 790	North/South Line South	Feet from the 1,540	East/West Line East	County: San Juan
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Latitude 36.935985 Longitude 107.991478

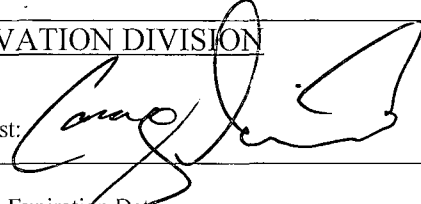
NATURE OF RELEASE

Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank, 21 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: April 2, 2014; 11:58 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 removal of the 21-bbl below grade tank (BGT) soil underneath the tank was sampled. Analysis results showed TPH values of 173 to 4,770 ppm by Method 8015B, indicating a release occurred at some time. Impacted soil was excavated and removed.

Describe Area Affected and Cleanup Action Taken.* Impacted soil under the BGT was excavated and removed until remaining soil samples resulted in TPH values of less than 100 ppm TPH, which is the cleanup standard for this site. Approximately 3,650 cubic yards of impacted soil were removed and transported to a landfarm for treatment. The excavated area was backfilled with clean soil and compacted. Attached are a summary of the remediation, lab analyses, and a site map.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: 1/6/15	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: January 7, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

#Ncs 1503741156

56

BP America: Neil A 6A
(O) Sec 33 – T32N – R11W
API: 30-045-22843
San Juan County, New Mexico

Summary Record of Impact Remediation

April 2-3, 2014 Historical soil impacts were encountered during closure of the site 21 barrel BGT. Preliminary investigation at the BGT discovered soil impacts were present below the BGT and along an abandon flowline north of the BGT. A soil sample collected at 9 feet below grade, under the center of the BGT, found TPH via US EPA 8015 (GRO) = 4,000 ppm and (DRO) = 770 ppm, with Benzene at <0.65 ppm and Total BTEX = 208 ppm. Evaluation of the site ranking criteria indicated a closure standard of 100 ppm TPH based on groundwater estimated at >100' and surface water <200' from impact.

September 15, 2014 Initiate site remediation by excavation with trackhoe.

September 16, 2014 Conduct sampling of remediation, with composite sidewall and base samples for lab testing of TPH, BTEX and Chlorides.

September 17, 2014 Conduct sampling of remediation, with composite sidewall and base samples for lab testing of TPH, BTEX and Chlorides.

September 18, 2014 Conduct sampling of remediation, with composite sidewall and base samples for lab testing of TPH, BTEX and Chlorides.

September 19, 2014 Conduct sampling of remediation, with composite base sample for lab testing of TPH, BTEX and Chlorides.

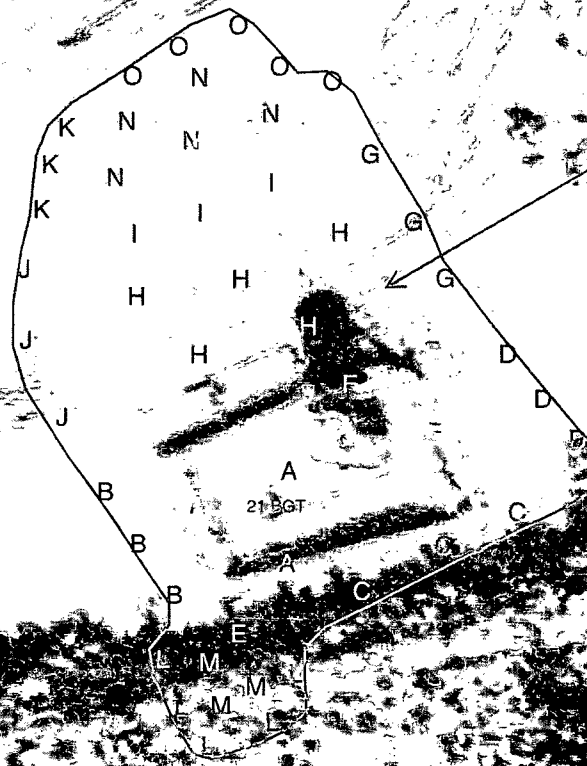
September 22, 2014 Conduct sampling of remediation, with composite sidewall and base samples for lab testing of TPH, BTEX and Chlorides.

September 24, 2014 Conduct sampling of remediation, with composite sidewall and base samples for lab testing of TPH, BTEX and Chlorides.

Neil A 6A Remedial Excavation

Neil A 6A

Excavation Completed
9/24/2014 (140' x 100' x 14'
deep)



Summary of Failed Lab Tests of Remediation (Note: All samples points subsequently removed via excavation, with re-sampling to confirm closure standards reached)

Sample Date	Google Map ID	Lab Sample ID	TPH - US EPA 8015 (GRO + DRO) (mg/Kg)
4/2/2014	21 BGT	TH 6 @ 9' (21)	4,770
9/17/2014	E	SW Corner Wall 8'-12'	173
9/18/2014	I	North Wall Center 3-pt @ 8'-12'	1,565

Summary of Passed Lab Tests for Confirmation of Remediation
(Note: Sample points marked on Overhead Google Site Photo)

Sample Date	Google Map ID	Lab Sample ID	TPH - US EPA 8015 (GRO + DRO) (mg/Kg)
9/16/2014	A	West Base 3-pt @ -14'	ND
9/16/2014	B	West Wall South 3-pt @ 6'-12'	ND
9/16/2014	C	South Wall 3-pt 8'-12'	23.2
9/16/2014	D	East Wall 3-pt 8'-12'	ND
9/17/2014	F	NE Corner Base 3-pt @ -14'	ND
9/17/2014	G	NE Corner Wall 3-pt 8'-12'	12.8
9/18/2014	H	North Base 5-pt @ -14'	ND
9/18/2014	J	West Wall North Half 3-pt 8'-12'	ND
9/19/2014	K	NE Corner 3-pt 8'-12'	ND
9/22/2014	L	Extended SW Corner Sidewall 5-pt 6'-12'	ND
9/22/2014	M	Extended SW Corner Base 5-pt @ -14'	ND
9/24/2014	N	Extended North Base 5-pt @ -14'	ND
9/24/2014	O	Extended North Wall 5-pt 6'-12'	ND

September 26, 2014 Meet with NMOCD at Aztec District Office, review site remedial efforts, lab results and receive preliminary authorization to commence with backfilling.

September 30, 2014 Complete backfilling operation. Total soil volume removed and transported to landfarm approximately = 3,050 cubic yards.



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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Base 3-pt @-14'	P409066-01A	Soil	09/16/14	09/16/14	Glass Jar, 4 oz.
West Wall- South 3-pt @ 6'-12'	P409066-02A	Soil	09/16/14	09/16/14	Glass Jar, 4 oz.
South Wall 3-pt 8'-12'	P409066-03A	Soil	09/16/14	09/16/14	Glass Jar, 4 oz.
East Wall 3-pt 8'-12'	P409066-04A	Soil	09/16/14	09/16/14	Glass Jar, 4 oz.

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 Project Name: Neil A 6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 17-Sep-14 13:19

West Base 3-pt @-14'
P409066-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.6 %		50-150	1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: Bromochlorobenzene		90.2 %		50-150	1438007	09/16/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1438009	09/16/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		81.4 %		50-200	1438009	09/16/14	09/17/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.92	mg/kg	1	1438006	09/16/14	09/16/14	EPA 300.0	

Map ID: A

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 Project Name: Neil A 6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 17-Sep-14 13:19

West Wall- South 3-pt @ 6'-12'
P409066-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		89.3 %		50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: Bromochlorobenzene		89.1 %		50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1		1438009	09/16/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		102 %		50-200		1438009	09/16/14	09/17/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.99	mg/kg	1		1438006	09/16/14	09/16/14	EPA 300.0	

Map ID: B

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 Tulsa OK, 74121-2024

 Project Name: Neil A 6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 17-Sep-14 13:19

South Wall 3-pt 8'-12'
P409066-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Total Xylenes	0.08	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Total BTEX	0.08	0.05	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		92.4 %		50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: Bromochlorobenzene		93.3 %		50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	23.2	5.00	mg/kg	1		1438007	09/16/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1		1438009	09/16/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		90.1 %		50-200		1438009	09/16/14	09/17/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.85	mg/kg	1		1438006	09/16/14	09/16/14	EPA 300.0	

Map ID: C

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

East Wall 3-pt 8'-12'
P409066-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		87.8 %	50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Surrogate: Bromochlorobenzene		87.4 %	50-150		1438007	09/16/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1438007	09/16/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1438009	09/16/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		99.4 %	50-200		1438009	09/16/14	09/17/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.86	mg/kg	1	1438006	09/16/14	09/16/14	EPA 300.0	

Map ID: D

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

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 1438007 - Purge and Trap EPA 5030A

Blank (1438007-BLK1)

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	0.0473		"	0.0499		94.8	50-150			
Surrogate: Bromochlorobenzene	0.0466		"	0.0499		93.5	50-150			

Duplicate (1438007-DUP1)

Source: P409061-01

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	0.0460		"	0.0500		92.1	50-150			
Surrogate: Bromochlorobenzene	0.0462		"	0.0500		92.5	50-150			

Matrix Spike (1438007-MS1)

Source: P409061-01

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Benzene	2.06	0.05	mg/kg	2.50	ND	82.6	39-150			
Toluene	2.07	0.05	"	2.50	ND	82.9	46-148			
Ethylbenzene	2.06	0.05	"	2.50	ND	82.6	32-160			
p,m-Xylene	3.99	0.10	"	5.00	ND	79.8	46-148			
o-Xylene	2.01	0.05	"	2.50	ND	80.6	46-148			
Surrogate: 1,3-Dichlorobenzene	1.98		"	2.50		79.2	50-150			
Surrogate: Bromochlorobenzene	1.89		"	2.50		75.7	50-150			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

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 1438007 - Purge and Trap EPA 5030A

Blank (1438007-BLK1)

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

Duplicate (1438007-DUP1)

Source: P409061-01

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg ND 30

Matrix Spike (1438007-MS1)

Source: P409061-01

Prepared: 16-Sep-14 Analyzed: 17-Sep-14

Gasoline Range Organics (C6-C10) 20.5 5.00 mg/kg 22.5 ND 91.1 75-125

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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

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 1438009 - DRO Extraction EPA 3550M										
Blank (1438009-BLK1)				Prepared & Analyzed: 16-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	41.1		"	40.0		103	50-200			
LCS (1438009-BS1)				Prepared & Analyzed: 16-Sep-14						
Diesel Range Organics (C10-C28)	568	25.0	mg/kg	499		114	38-132			
Surrogate: o-Terphenyl	48.5		"	39.9		121	50-200			
Matrix Spike (1438009-MS1)				Source: P409063-01		Prepared & Analyzed: 16-Sep-14				
Diesel Range Organics (C10-C28)	740	30.0	mg/kg	499	ND	148	38-132			SPK1
Surrogate: o-Terphenyl	52.8		"	39.9		132	50-200			
Matrix Spike Dup (1438009-MSD1)				Source: P409063-01		Prepared & Analyzed: 16-Sep-14				
Diesel Range Organics (C10-C28)	726	29.9	mg/kg	499	ND	146	38-132	1.97	20	SPK1
Surrogate: o-Terphenyl	53.7		"	39.9		135	50-200			

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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 13:19

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 1438006 - Anion Extraction EPA 300.0										
Blank (1438006-BLK1)				Prepared & Analyzed: 16-Sep-14						
Chloride	ND	9.98	mg/kg							
LCS (1438006-BS1)				Prepared & Analyzed: 16-Sep-14						
Chloride	497	9.96	mg/kg	498		99.8	90-110			
Matrix Spike (1438006-MS1)				Source: P409058-01 Prepared & Analyzed: 16-Sep-14						
Chloride	492	9.81	mg/kg	490	ND	100	80-120			
Matrix Spike Dup (1438006-MSD1)				Source: P409058-01 Prepared & Analyzed: 16-Sep-14						
Chloride	493	9.86	mg/kg	493	ND	99.9	80-120	0.157	20	

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RMSH

CHAIN OF CUSTODY RECORD

17493

Client: BP America			Project Name / Location: NEIL A 6A			ANALYSIS / PARAMETERS														
Email results to: jeffcblogg@AOL.com PEACE.JEFFREY@BP.COM			Sampler Name: J- BLA66			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 03143-0424																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative															
					HNO ₃	HCl														
WEST BASE 3-pt @ -14"	9/16/14	1030	P409066-01	1 x 402				x	x							x			x	x
WEST WALL - SOUTH 3-pt @ 6"-12"	"	1039	P409066-02	"				x	x							x			x	x
SOUTH WALL 3-pt 8"-12"	"	1045	P409066-03	"				x	x							x			x	x
EAST WALL 3-pt 8"-12"	"	1050	P409066-04	"				x	x							x			x	x
Relinquished by: (Signature) Jeff Blagg					Date	Time	Received by: (Signature) William Joe					Date	Time							
					9/16/2014	1255						9/16/14	1255							
Relinquished by: (Signature)							Received by: (Signature)													
Sample Matrix:																				
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																				
☐ Sample(s) dropped off after hours to secure drop off area.																				
										10.8 13.1 10.6 (11.5)										



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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
18-Sep-14 11:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Corner Wall 8'-12'	P409069-01A	Soil	09/17/14	09/17/14	Glass Jar, 4 oz.
NE Corner Base 3-pt @ -14'	P409069-02A	Soil	09/17/14	09/17/14	Glass Jar, 4 oz.
NE Corner Wall 3-pt 8'-12'	P409069-03A	Soil	09/17/14	09/17/14	Glass Jar, 4 oz.

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 Project Name: Neil A 6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 18-Sep-14 11:40

NE Corner Base 3-pt @ -14'
P409069-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %		50-150		1438015	09/17/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1		1438015	09/17/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1438016	09/17/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		103 %		50-200		1438016	09/17/14	09/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		87.2 %		50-150		1438015	09/17/14	09/17/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.84	mg/kg	1		1438020	09/17/14	09/17/14	EPA 300.0	

Map ID: F

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 Tulsa OK, 74121-2024

 Project Name: Neil A 6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 18-Sep-14 11:40

NE Corner Wall 3-pt 8'-12'
P409069-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	50-150		1438015	09/17/14	09/17/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	12.8	9.99	mg/kg	1	1438015	09/17/14	09/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1438016	09/17/14	09/17/14	EPA 8015D	
Surrogate: o-Terphenyl		78.0 %	50-200		1438016	09/17/14	09/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		89.8 %	50-150		1438015	09/17/14	09/17/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.86	mg/kg	1	1438020	09/17/14	09/17/14	EPA 300.0	

Map ID: G

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Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
18-Sep-14 11:40

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 1438015 - Purge and Trap EPA 5030A

Blank (1438015-BLK1)

Prepared & Analyzed: 17-Sep-14

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	0.390		"	0.400		97.5	50-150			

LCS (1438015-BS1)

Prepared & Analyzed: 17-Sep-14

Benzene	20.0	0.10	mg/kg	19.9		101	75-125			
Toluene	20.1	0.10	"	19.9		101	70-125			
Ethylbenzene	20.3	0.10	"	19.9		102	75-125			
p,m-Xylene	41.1	0.20	"	39.9		103	80-125			
o-Xylene	20.2	0.10	"	19.9		102	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.404		"	0.399		101	50-150			

Matrix Spike (1438015-MS1)

Source: P409067-01

Prepared & Analyzed: 17-Sep-14

Benzene	20.5	0.10	mg/kg	19.9	ND	103	75-125			
Toluene	20.6	0.10	"	19.9	ND	104	70-125			
Ethylbenzene	20.9	0.10	"	19.9	ND	105	75-125			
p,m-Xylene	42.3	0.20	"	39.9	ND	106	80-125			
o-Xylene	21.0	0.10	"	19.9	ND	105	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.416		"	0.399		104	50-150			

Matrix Spike Dup (1438015-MSD1)

Source: P409067-01

Prepared & Analyzed: 17-Sep-14

Benzene	20.3	0.10	mg/kg	19.9	ND	102	75-125	1.37	15	
Toluene	20.3	0.10	"	19.9	ND	102	70-125	1.68	15	
Ethylbenzene	20.4	0.10	"	19.9	ND	102	75-125	2.12	15	
p,m-Xylene	41.3	0.20	"	39.9	ND	104	80-125	2.41	15	
o-Xylene	20.5	0.10	"	19.9	ND	103	75-125	2.30	15	
Surrogate: 4-Bromochlorobenzene-PID	0.409		"	0.399		103	50-150			

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
18-Sep-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 1438015 - Purge and Trap EPA 5030A										
Blank (1438015-BLK1)				Prepared & Analyzed: 17-Sep-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.356		"	0.400		89.0	50-150			
LCS (1438015-BS1)				Prepared & Analyzed: 17-Sep-14						
Gasoline Range Organics (C6-C10)	283	9.97	mg/kg	291		97.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.366		"	0.399		91.9	50-150			
Matrix Spike (1438015-MS1)				Source: P409067-01	Prepared & Analyzed: 17-Sep-14					
Gasoline Range Organics (C6-C10)	293	9.96	mg/kg	291	ND	101	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.399		95.2	50-150			
Matrix Spike Dup (1438015-MSD1)				Source: P409067-01	Prepared & Analyzed: 17-Sep-14					
Gasoline Range Organics (C6-C10)	285	9.97	mg/kg	291	ND	98.0	75-125	2.56	15	
Surrogate: 4-Bromochlorobenzene-FID	0.370		"	0.399		92.8	50-150			

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PO Box 22024
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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
18-Sep-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 1438016 - DRO Extraction EPA 3550M										
Blank (1438016-BLK1)				Prepared & Analyzed: 17-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	40.2		"	39.9		101	50-200			
LCS (1438016-BS1)				Prepared & Analyzed: 17-Sep-14						
Diesel Range Organics (C10-C28)	445	25.0	mg/kg	499		89.3	38-132			
Surrogate: o-Terphenyl	37.5		"	39.9		93.9	50-200			
Matrix Spike (1438016-MS1)				Source: P409061-01		Prepared & Analyzed: 17-Sep-14				
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	499	ND	95.0	38-132			
Surrogate: o-Terphenyl	36.7		"	39.9		91.8	50-200			
Matrix Spike Dup (1438016-MSD1)				Source: P409061-01		Prepared & Analyzed: 17-Sep-14				
Diesel Range Organics (C10-C28)	508	24.9	mg/kg	498	ND	102	38-132	6.85	20	
Surrogate: o-Terphenyl	39.3		"	39.9		98.6	50-200			

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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
18-Sep-14 11:40

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 1438020 - Anion Extraction EPA 300.0										
Blank (1438020-BLK1)				Prepared & Analyzed: 17-Sep-14						
Chloride	ND	9.82	mg/kg							
LCS (1438020-BS1)				Prepared & Analyzed: 17-Sep-14						
Chloride	494	9.92	mg/kg	496		99.6	90-110			
Matrix Spike (1438020-MS1)				Source: P409059-01 Prepared & Analyzed: 17-Sep-14						
Chloride	510	9.92	mg/kg	496	ND	103	80-120			
Matrix Spike Dup (1438020-MSD1)				Source: P409059-01 Prepared & Analyzed: 17-Sep-14						
Chloride	508	9.91	mg/kg	496	ND	102	80-120	0.470	20	

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RUSH

CHAIN OF CUSTODY RECORD

17496

Client: BP AMERICA			Project Name / Location: NEIL A 6A			ANALYSIS / PARAMETERS													
Email results to: jeffeblogg@aol.com peace.jeffrey@bp.com			Sampler Name: J. Blagg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 03143-0424																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
SW Corner Wall 8'-12'	9/17/2014	0805	P409069-01	1 x 4oz				x	x						x			x	x
NE Corner Base 3-pt @ -14'	"	0833	P409069-02	"				x	x						x			x	x
NE Corner Wall 3-pt 8'-12'	"	0856	P409069-03	"				x	x						x			x	x
Relinquished by: (Signature) Jeff Blagg					Date	Time	Received by: (Signature) Mirangre					Date	Time						
					9/17/14	1316						9/17/14	1316						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.					envirotech Analytical Laboratory 2.0 2.0 3.3 2.4														



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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Base 5-pt @-14'	P409073-01A	Soil	09/18/14	09/18/14	Glass Jar, 4 oz.
North Wall - Center 3-pt @ 8'-12'	P409073-02A	Soil	09/18/14	09/18/14	Glass Jar, 4 oz.
Existing Stock Pile 5-pt Comp.	P409073-03A	Soil	09/18/14	09/18/14	Glass Jar, 4 oz.
West Wall North Half 3-pt @ 8'-12'	P409073-04A	Soil	09/18/14	09/18/14	Glass Jar, 4 oz.

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Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

North Base 5-pt @-14'
P409073-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
Ethylbenzene	0.10	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
o-Xylene	0.12	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
Total Xylenes	0.12	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
Total BTEX	0.22	0.10	mg/kg	1	1438023	09/18/14	09/19/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1438023	09/18/14	09/19/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1438023	09/19/14	09/19/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1438022	09/18/14	09/19/14	EPA 8015D	
Surrogate: o-Terphenyl		121 %		50-200	1438022	09/18/14	09/19/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.0 %		50-150	1438023	09/19/14	09/19/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.91	mg/kg	1	1438025	09/18/14	09/18/14	EPA 300.0	

Map ID: H

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Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

West Wall North Half 3-pt @ 8'-12'
P409073-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1438023	09/18/14	09/19/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150		1438023	09/18/14	09/19/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg	1		1438023	09/19/14	09/19/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1438022	09/18/14	09/19/14	EPA 8015D	
Surrogate: o-Terphenyl		130 %		50-200		1438022	09/18/14	09/19/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		94.8 %		50-150		1438023	09/19/14	09/19/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.96	mg/kg	1		1438025	09/18/14	09/18/14	EPA 300.0	

Map ID: J

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

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

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 1438023 - Purge and Trap EPA 5030A

Blank (1438023-BLK1)

Prepared & Analyzed: 18-Sep-14

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 0.383 " 0.399 95.9 50-150

LCS (1438023-BS1)

Prepared & Analyzed: 18-Sep-14

Benzene	21.4	0.10	mg/kg	20.0		107	75-125			
Toluene	20.5	0.10	"	20.0		103	70-125			
Ethylbenzene	20.4	0.10	"	20.0		102	75-125			
p,m-Xylene	42.2	0.20	"	40.0		106	80-125			
o-Xylene	20.6	0.10	"	20.0		103	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.395 " 0.400 98.8 50-150

Matrix Spike (1438023-MS1)

Source: P409070-01

Prepared & Analyzed: 18-Sep-14

Benzene	21.7	0.10	mg/kg	19.9	ND	109	75-125			
Toluene	21.0	0.10	"	19.9	ND	105	70-125			
Ethylbenzene	21.0	0.10	"	19.9	ND	105	75-125			
p,m-Xylene	43.3	0.20	"	39.9	ND	109	80-125			
o-Xylene	20.9	0.10	"	19.9	ND	105	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.374 " 0.399 93.8 50-150

Matrix Spike Dup (1438023-MSD1)

Source: P409070-01

Prepared & Analyzed: 18-Sep-14

Benzene	21.2	0.10	mg/kg	19.9	ND	107	75-125	2.03	15	
Toluene	20.5	0.10	"	19.9	ND	103	70-125	2.06	15	
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125	2.35	15	
p,m-Xylene	42.3	0.20	"	39.9	ND	106	80-125	2.21	15	
o-Xylene	20.5	0.10	"	19.9	ND	103	75-125	1.76	15	

Surrogate: 4-Bromochlorobenzene-PID 0.390 " 0.399 97.9 50-150

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

 Project Name: Neil A #6A
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 19-Sep-14 12:23

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 1438022 - DRO Extraction EPA 3550M										
Blank (1438022-BLK1)				Prepared & Analyzed: 18-Sep-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Surrogate: o-Terphenyl	29.3		"	39.9		73.3	50-200			
LCS (1438022-BS1)				Prepared & Analyzed: 18-Sep-14						
Diesel Range Organics (C10-C28)	497	30.0	mg/kg	500		99.4	38-132			
Surrogate: o-Terphenyl	39.1		"	40.0		97.8	50-200			
Matrix Spike (1438022-MS1)				Source: P409070-01		Prepared & Analyzed: 18-Sep-14				
Diesel Range Organics (C10-C28)	688	29.9	mg/kg	499	ND	138	38-132			SPK1
Surrogate: o-Terphenyl	52.0		"	39.9		130	50-200			
Matrix Spike Dup (1438022-MSD1)				Source: P409070-01		Prepared & Analyzed: 18-Sep-14				
Diesel Range Organics (C10-C28)	653	30.0	mg/kg	499	ND	131	38-132	5.19	20	
Surrogate: o-Terphenyl	49.7		"	39.9		124	50-200			

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Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

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 1438023 - Purge and Trap EPA 5030A										
Blank (1438023-BLK1)				Prepared & Analyzed: 18-Sep-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.375		"	0.399		93.8	50-150			
LCS (1438023-BS1)				Prepared & Analyzed: 18-Sep-14						
Gasoline Range Organics (C6-C10)	305	10.0	mg/kg	292		104	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.383		"	0.400		95.7	50-150			
Matrix Spike (1438023-MS1)				Source: P409070-01		Prepared & Analyzed: 18-Sep-14				
Gasoline Range Organics (C6-C10)	311	9.97	mg/kg	291	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.367		"	0.399		92.0	50-150			
Matrix Spike Dup (1438023-MSD1)				Source: P409070-01		Prepared & Analyzed: 18-Sep-14				
Gasoline Range Organics (C6-C10)	307	9.97	mg/kg	291	ND	105	75-125	1.47	15	
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.399		95.0	50-150			

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PO Box 22024
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Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
19-Sep-14 12:23

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1438025 - Anion Extraction EPA 300.0

Blank (1438025-BLK1)

Prepared & Analyzed: 18-Sep-14

Chloride	ND	9.96	mg/kg
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LCS (1438025-BSI)

Prepared & Analyzed: 18-Sep-14

Chloride	501	9.97	mg/kg	499	100	90-110
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Matrix Spike (1438025-MSI)

Source: P409070-01

Prepared & Analyzed: 18-Sep-14

Chloride	523	9.91	mg/kg	496	17.1	102	80-120
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Matrix Spike Dup (1438025-MSD1)

Source: P409070-01

Prepared & Analyzed: 18-Sep-14

Chloride	524	9.83	mg/kg	492	17.1	103	80-120	0.115	20
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CHAIN OF CUSTODY RECORD

17798

Client: BP America		Project Name / Location: Neil A 6A			ANALYSIS / PARAMETERS																																																																																																																																																																																																																																																													
Email results to: jeffcblagg@aol.com Peace.Jeffrey@BP.com		Sampler Name: J. Blagg			<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP 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>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td>Y</td><td>Y</td> </tr> <tr> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td> </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> <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> <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> <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> <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> <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> <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> <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> <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> <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)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact	X	X								X					Y	Y	X	X								X							X	X								X							X	X								X																																																																																																																																																																						
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Client Phone No.: 505-320-1193		Client No.: 03143-0424																																																																																																																																																																																																																																																																
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NORTH BASE 5-pt @ ~14'	9/18/2014	1215	P409073-01	1 x 4 oz				X	X									X					Y	Y																																																																																																																																																																																																																																										
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Analytical Laboratory

6.9, 0.0, 0.7



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

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
24-Sep-14 11:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE Corner 3-pt 8'-12'	P409078-01A	Soil	09/19/14	09/19/14	Glass Jar, 4 oz.

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
24-Sep-14 11:40

NE Corner 3-pt 8'-12'
P409078-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
p,m-Xylene	0.36	0.20	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
Total Xylenes	0.36	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
Total BTEX	0.36	0.10	mg/kg	1		1438035	09/19/14	09/22/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150		1438035	09/19/14	09/22/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg	1		1438035	09/22/14	09/22/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1		1439001	09/22/14	09/22/14	EPA 8015D	
Surrogate: o-Terphenyl		129 %		50-200		1439001	09/22/14	09/22/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		93.9 %		50-150		1438035	09/22/14	09/22/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.99	mg/kg	1		1438029	09/19/14	09/19/14	EPA 300.0	

Map ID: K

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Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
24-Sep-14 11:40

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 1438035 - Purge and Trap EPA 5030A

Blank (1438035-BLK1)

Prepared & Analyzed: 22-Sep-14

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	0.418		"	0.400		105	50-150			

LCS (1438035-BS1)

Prepared & Analyzed: 22-Sep-14

Benzene	20.0	0.10	mg/kg	20.0		100	75-125			
Toluene	20.1	0.10	"	20.0		101	70-125			
Ethylbenzene	20.5	0.10	"	20.0		102	75-125			
p,m-Xylene	41.5	0.20	"	39.9		104	80-125			
o-Xylene	20.2	0.10	"	20.0		101	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.392		"	0.399		98.2	50-150			

Matrix Spike (1438035-MS1)

Source: P409076-01

Prepared & Analyzed: 22-Sep-14

Benzene	19.7	0.10	mg/kg	20.0	ND	98.7	75-125			
Toluene	19.8	0.10	"	20.0	ND	99.2	70-125			
Ethylbenzene	20.0	0.10	"	20.0	ND	100	75-125			
p,m-Xylene	40.6	0.20	"	40.0	ND	102	80-125			
o-Xylene	20.1	0.10	"	20.0	ND	100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.419		"	0.400		105	50-150			

Matrix Spike Dup (1438035-MSD1)

Source: P409076-01

Prepared & Analyzed: 22-Sep-14

Benzene	19.5	0.10	mg/kg	20.0	ND	97.6	75-125	1.26	15	
Toluene	19.5	0.10	"	20.0	ND	97.6	70-125	1.71	15	
Ethylbenzene	19.7	0.10	"	20.0	ND	98.6	75-125	1.52	15	
p,m-Xylene	40.1	0.20	"	39.9	ND	100	80-125	1.31	15	
o-Xylene	19.9	0.10	"	20.0	ND	99.5	75-125	1.04	15	
Surrogate: 4-Bromochlorobenzene-PID	0.416		"	0.399		104	50-150			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
24-Sep-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 1438035 - Purge and Trap EPA 5030A										
Blank (1438035-BLK1)				Prepared & Analyzed: 22-Sep-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.381		"	0.400		95.4	50-150			
LCS (1438035-BS1)				Prepared & Analyzed: 22-Sep-14						
Gasoline Range Organics (C6-C10)	273	9.98	mg/kg	292		93.7	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.363		"	0.399		90.8	50-150			
Matrix Spike (1438035-MS1)				Source: P409076-01		Prepared & Analyzed: 22-Sep-14				
Gasoline Range Organics (C6-C10)	280	9.99	mg/kg	292	ND	96.0	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.384		"	0.400		96.0	50-150			
Matrix Spike Dup (1438035-MSD1)				Source: P409076-01		Prepared & Analyzed: 22-Sep-14				
Gasoline Range Organics (C6-C10)	272	9.99	mg/kg	292	ND	93.4	75-125	2.85	15	
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.399		94.8	50-150			

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Project Name: Neil A #6A
Project Number: 03143-0424
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Reported:
24-Sep-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 1439001 - DRO Extraction EPA 3550M										
Blank (1439001-BLK1)				Prepared & Analyzed: 22-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	41.4		"	39.9		104	50-200			
LCS (1439001-BS1)				Prepared & Analyzed: 22-Sep-14						
Diesel Range Organics (C10-C28)	540	24.9	mg/kg	498		108	38-132			
Surrogate: o-Terphenyl	39.5		"	39.9		99.1	50-200			
Matrix Spike (1439001-MS1)				Source: P409081-01		Prepared & Analyzed: 22-Sep-14				
Diesel Range Organics (C10-C28)	2380	25.0	mg/kg	499	1420	192	38-132			SPK1
Surrogate: o-Terphenyl	56.7		"	40.0		142	50-200			
Matrix Spike Dup (1439001-MSD1)				Source: P409081-01		Prepared & Analyzed: 22-Sep-14				
Diesel Range Organics (C10-C28)	2460	25.0	mg/kg	500	1420	209	38-132	3.56	20	SPK1
Surrogate: o-Terphenyl	53.3		"	40.0		133	50-200			

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

Project Name: Neil A #6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
24-Sep-14 11:40

Cation/Anion Analysis - Quality Control

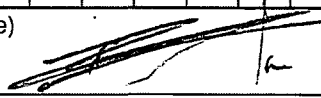
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1438029 - Anion Extraction EPA 300.0										
Blank (1438029-BLK1)										
					Prepared & Analyzed: 19-Sep-14					
Chloride	ND	9.97	mg/kg							
LCS (1438029-BS1)										
					Prepared & Analyzed: 19-Sep-14					
Chloride	499	9.97	mg/kg	499		100	90-110			
Matrix Spike (1438029-MS1)										
		Source: P409075-01			Prepared & Analyzed: 19-Sep-14					
Chloride	509	9.91	mg/kg	495	10.8	100	80-120			
Matrix Spike Dup (1438029-MSD1)										
		Source: P409075-01			Prepared & Analyzed: 19-Sep-14					
Chloride	506	9.86	mg/kg	493	10.8	100	80-120	0.574	20	

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CHAIN OF CUSTODY RECORD

17800

Client: BP America			Project Name / Location: Neil A 6A			ANALYSIS / PARAMETERS														
Email results to: jeffcblagg@aol.com peace.jeffrey@BP.com			Sampler Name: J. Blagg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418:1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.: 505-320-1193			Client No.: 03143-0424																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative															
					HNO ₃	HCl														
NE corner 3-PO 8'-12'	9/19/2014	0925	P409078-01	1 x 4oz				X	X									X		
Relinquished by: (Signature) Jeff Blagg					Date	Time	Received by: (Signature) 					Date	Time							
Relinquished by: (Signature)					9/19/2014	1113	Received by: (Signature)					9/19/2014	1113							
Sample Matrix																				
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																				
☐ Sample(s) dropped off after hours to secure drop off area.																				
 4.1																				
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended SW Corner Sidewall 5-pt 6'-12'	P409090-01A	Soil	09/22/14	09/23/14	Glass Jar, 4 oz.
Extended SW Corner Base 5-pt @ 14'	P409090-02A	Soil	09/22/14	09/23/14	Glass Jar, 4 oz.

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

Extended SW Corner Sidewall 5-pt 6'-12'
P409090-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1439003	09/23/14	09/23/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1439009	09/23/14	09/23/14	EPA 8015D	
Surrogate: o-Terphenyl		86.6 %		50-200	1439009	09/23/14	09/23/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.9 %		50-150	1439003	09/23/14	09/23/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	12.5	9.93	mg/kg	1	1439008	09/23/14	09/23/14	EPA 300.0	

Map ID: L

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

Extended SW Corner Base 5-pt @ 14'
P409090-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	50-150		1439003	09/23/14	09/23/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg	1	1439003	09/23/14	09/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	32.5	24.9	mg/kg	1	1439009	09/23/14	09/23/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		90.1 %	50-200		1439009	09/23/14	09/23/14	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.0 %	50-150		1439003	09/23/14	09/23/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.84	mg/kg	1	1439008	09/23/14	09/23/14	EPA 300.0	

Map ID: M

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Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

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 1439003 - Purge and Trap EPA 5030A

Blank (1439003-BLK1)

Prepared & Analyzed: 23-Sep-14

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	0.12	0.10	"							
Total Xylenes	0.12	0.10	"							
Total BTEX	0.12	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.408 " 0.399 102 50-150

LCS (1439003-BS1)

Prepared & Analyzed: 23-Sep-14

Benzene	19.3	0.10	mg/kg	20.0		96.7	75-125			
Toluene	19.4	0.10	"	20.0		97.0	70-125			
Ethylbenzene	19.6	0.10	"	20.0		98.1	75-125			
p,m-Xylene	39.8	0.20	"	40.0		99.6	80-125			
o-Xylene	19.6	0.10	"	20.0		98.1	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.407 " 0.400 102 50-150

Matrix Spike (1439003-MS1)

Source: P409084-01

Prepared & Analyzed: 23-Sep-14

Benzene	20.2	0.10	mg/kg	19.9	ND	101	75-125			
Toluene	20.2	0.10	"	19.9	ND	101	70-125			
Ethylbenzene	20.4	0.10	"	19.9	ND	102	75-125			
p,m-Xylene	41.4	0.20	"	39.9	0.20	103	80-125			
o-Xylene	20.4	0.10	"	19.9	0.12	102	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.402 " 0.399 101 50-150

Matrix Spike Dup (1439003-MSD1)

Source: P409084-01

Prepared & Analyzed: 23-Sep-14

Benzene	19.6	0.10	mg/kg	19.9	ND	98.1	75-125	3.23	15	
Toluene	19.6	0.10	"	19.9	ND	98.4	70-125	2.98	15	
Ethylbenzene	19.8	0.10	"	19.9	ND	99.5	75-125	2.83	15	
p,m-Xylene	40.4	0.20	"	39.9	0.20	101	80-125	2.55	15	
o-Xylene	19.9	0.10	"	19.9	0.12	99.3	75-125	2.28	15	

Surrogate: 4-Bromochlorobenzene-PID 0.407 " 0.399 102 50-150

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

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 1439003 - Purge and Trap EPA 5030A										
Blank (1439003-BLK1)				Prepared & Analyzed: 23-Sep-14						
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.370		"	0.399		92.7	50-150			
LCS (1439003-BS1)				Prepared & Analyzed: 23-Sep-14						
Gasoline Range Organics (C6-C10)	267	10.0	mg/kg	292		91.5	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.370		"	0.400		92.6	50-150			
Matrix Spike (1439003-MS1)				Source: P409084-01		Prepared & Analyzed: 23-Sep-14				
Gasoline Range Organics (C6-C10)	275	9.97	mg/kg	291	ND	94.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.366		"	0.399		91.8	50-150			
Matrix Spike Dup (1439003-MSD1)				Source: P409084-01		Prepared & Analyzed: 23-Sep-14				
Gasoline Range Organics (C6-C10)	268	9.97	mg/kg	291	ND	91.9	75-125	2.86	15	
Surrogate: 4-Bromochlorobenzene-FID	0.370		"	0.399		92.6	50-150			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

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 1439009 - DRO Extraction EPA 3550M										
Blank (1439009-BLK1)				Prepared & Analyzed: 23-Sep-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	32.6		"	39.9		81.8	50-200			
LCS (1439009-BSI)				Prepared & Analyzed: 23-Sep-14						
Diesel Range Organics (C10-C28)	505	24.9	mg/kg	499		101	38-132			
Surrogate: o-Terphenyl	37.9		"	39.9		94.9	50-200			
Matrix Spike (1439009-MSI)				Source: P409090-01		Prepared & Analyzed: 23-Sep-14				
Diesel Range Organics (C10-C28)	521	25.0	mg/kg	499	ND	104	38-132			
Surrogate: o-Terphenyl	36.9		"	39.9		92.4	50-200			
Matrix Spike Dup (1439009-MSD1)				Source: P409090-01		Prepared & Analyzed: 23-Sep-14				
Diesel Range Organics (C10-C28)	512	24.9	mg/kg	498	ND	103	38-132	1.63	20	
Surrogate: o-Terphenyl	36.3		"	39.9		91.1	50-200			

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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
25-Sep-14 12:04

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 1439008 - Anion Extraction EPA 300.0										
Blank (1439008-BLK1)										
Prepared & Analyzed: 23-Sep-14										
Chloride	ND	9.84	mg/kg							
LCS (1439008-BS1)										
Prepared & Analyzed: 23-Sep-14										
Chloride	483	9.80	mg/kg	490		98.4	90-110			
Matrix Spike (1439008-MS1)										
Source: P409090-01 Prepared & Analyzed: 23-Sep-14										
Chloride	501	9.98	mg/kg	499	12.5	97.9	80-120			
Matrix Spike Dup (1439008-MSD1)										
Source: P409090-01 Prepared & Analyzed: 23-Sep-14										
Chloride	502	9.98	mg/kg	499	12.5	98.0	80-120	0.179	20	

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CHAIN OF CUSTODY RECORD

17809

Client: BP AMERICA			Project Name / Location: NEIL A 6A			ANALYSIS / PARAMETERS													
Email results to: jeffcblagg@AOL.com peace.jeffrey@BP.com			Sampler Name: J. Blagg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 03143-0424																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
EXTENDED SW Corner SIDEWALL 5'-pt 6'-12'	9/22/14	1514	P409090-01	1 x 4 oz				X	X								X		Y ✓
EXTENDED SW Corner BASE 5'-pt 0'-14'	"	1521	P409090-02	"				X	X								X		Y ✓
Relinquished by: (Signature) <i>Jeff Blagg</i>					Date	Time	Received by: (Signature) <i>Dene Zazbon</i>					Date	Time						
					9/23/14	7:06						9/23/14	7:06						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended North Base 5-pt @ 14'	P409096-01A	Soil	09/24/14	09/24/14	Glass Jar, 4 oz.
Extended North Wall 5-pt @ 6-12'	P409096-02A	Soil	09/24/14	09/24/14	Glass Jar, 4 oz.

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Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

Extended North Base 5-pt @ 14'
P409096-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1439011	09/24/14	09/24/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1439011	09/24/14	09/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1439009	09/24/14	09/24/14	EPA 8015D	
Surrogate: o-Terphenyl		95.4 %		50-200	1439009	09/24/14	09/24/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.6 %		50-150	1439011	09/24/14	09/24/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.96	mg/kg	1	1439015	09/24/14	09/24/14	EPA 300.0	

Map ID: N

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

Extended North Wall 5-pt @ 6-12'

P409096-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150		1439011	09/24/14	09/24/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1		1439011	09/24/14	09/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1		1439009	09/24/14	09/24/14	EPA 8015D	
Surrogate: o-Terphenyl		94.7 %		50-200		1439009	09/24/14	09/24/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.9 %		50-150		1439011	09/24/14	09/24/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.78	mg/kg	1		1439015	09/24/14	09/24/14	EPA 300.0	

Map ID: O

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

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 1439011 - Purge and Trap EPA 5030A

Blank (1439011-BLK1)

Prepared & Analyzed: 23-Sep-14

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 0.393 " 0.400 98.3 50-150

LCS (1439011-BS1)

Prepared & Analyzed: 23-Sep-14

Benzene	19.7	0.10	mg/kg	20.0		98.7	75-125			
Toluene	19.7	0.10	"	20.0		98.7	70-125			
Ethylbenzene	19.9	0.10	"	20.0		99.6	75-125			
p,m-Xylene	40.5	0.20	"	40.0		101	80-125			
o-Xylene	20.0	0.10	"	20.0		100	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.417 " 0.400 104 50-150

Matrix Spike (1439011-MS1)

Source: P409094-01

Prepared & Analyzed: 23-Sep-14

Benzene	20.3	0.10	mg/kg	19.9	ND	102	75-125			
Toluene	20.3	0.10	"	19.9	ND	102	70-125			
Ethylbenzene	20.5	0.10	"	19.9	ND	103	75-125			
p,m-Xylene	41.6	0.20	"	39.9	ND	104	80-125			
o-Xylene	20.5	0.10	"	19.9	ND	103	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.412 " 0.399 103 50-150

Matrix Spike Dup (1439011-MSD1)

Source: P409094-01

Prepared & Analyzed: 23-Sep-14

Benzene	20.2	0.10	mg/kg	20.0	ND	101	75-125	0.298	15	
Toluene	20.2	0.10	"	20.0	ND	101	70-125	0.282	15	
Ethylbenzene	20.4	0.10	"	20.0	ND	102	75-125	0.410	15	
p,m-Xylene	41.4	0.20	"	40.0	ND	104	80-125	0.537	15	
o-Xylene	20.4	0.10	"	20.0	ND	102	75-125	0.556	15	

Surrogate: 4-Bromochlorobenzene-PID 0.401 " 0.400 100 50-150

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

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

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 1439009 - DRO Extraction EPA 3550M										
Blank (1439009-BLK1)				Prepared & Analyzed: 23-Sep-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	32.6		"	39.9		81.8	50-200			
LCS (1439009-BS1)				Prepared & Analyzed: 23-Sep-14						
Diesel Range Organics (C10-C28)	505	24.9	mg/kg	499		101	38-132			
Surrogate: o-Terphenyl	37.9		"	39.9		94.9	50-200			
Matrix Spike (1439009-MS1)				Source: P409090-01		Prepared & Analyzed: 23-Sep-14				
Diesel Range Organics (C10-C28)	521	25.0	mg/kg	499	ND	104	38-132			
Surrogate: o-Terphenyl	36.9		"	39.9		92.4	50-200			
Matrix Spike Dup (1439009-MSD1)				Source: P409090-01		Prepared & Analyzed: 23-Sep-14				
Diesel Range Organics (C10-C28)	512	24.9	mg/kg	498	ND	103	38-132	1.63	20	
Surrogate: o-Terphenyl	36.3		"	39.9		91.1	50-200			

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Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

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 1439011 - Purge and Trap EPA 5030A										
Blank (1439011-BLK1)				Prepared & Analyzed: 23-Sep-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.358		"	0.400		89.5	50-150			
LCS (1439011-BS1)				Prepared & Analyzed: 23-Sep-14						
Gasoline Range Organics (C6-C10)	275	10.0	mg/kg	292		94.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.379		"	0.400		94.8	50-150			
Matrix Spike (1439011-MS1)				Source: P409094-01		Prepared & Analyzed: 23-Sep-14				
Gasoline Range Organics (C6-C10)	282	9.97	mg/kg	291	ND	96.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.372		"	0.399		93.4	50-150			
Matrix Spike Dup (1439011-MSD1)				Source: P409094-01		Prepared & Analyzed: 23-Sep-14				
Gasoline Range Organics (C6-C10)	281	9.99	mg/kg	292	ND	96.3	75-125	0.403	15	
Surrogate: 4-Bromochlorobenzene-FID	0.364		"	0.400		91.2	50-150			

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Tulsa OK, 74121-2024

Project Name: Neil A 6A
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
26-Sep-14 11:12

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 1439015 - Anion Extraction EPA 300.0										
Blank (1439015-BLK1)				Prepared & Analyzed: 24-Sep-14						
Chloride	ND	9.96	mg/kg							
LCS (1439015-BS1)				Prepared & Analyzed: 24-Sep-14						
Chloride	489	9.93	mg/kg	497		98.5	90-110			
Matrix Spike (1439015-MS1)				Source: P409085-01 Prepared & Analyzed: 24-Sep-14						
Chloride	657	9.92	mg/kg	496	140	104	80-120			
Matrix Spike Dup (1439015-MSD1)				Source: P409085-01 Prepared: 24-Sep-14 Analyzed: 25-Sep-14						
Chloride	644	9.84	mg/kg	492	140	103	80-120	1.91	20	

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CHAIN OF CUSTODY RECORD

17813

Client: BP AMERICA			Project Name / Location: NEIL A 6A			ANALYSIS / PARAMETERS													
Email results to: jeffcblogg@AOL.com peace.jeffrey@BP.com			Sampler Name: J. Bugg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 03143-0424																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
EXTENDED NORTH BASE 5-pt @ -14"	9/24/14	0848	P409096-01	1 x 402			X	X							X			Y	Y
EXTENDED NORTH WALL 5-pt 6"-12"	"	0857	P409096-02	"			X	X							X			Y	Y
Relinquished by: (Signature) <i>Jeff Blogg</i>					Date	Time	Received by: (Signature) <i>[Signature]</i>										Date	Time	
					9/24/14	1151											9/24/14	1151	
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			

RUSH ASAP
Bill BP



2.7, 7.6

BP America: Neil A 6A
(O) Sec 33 – T32N – R11W
API: 30-045-22843
San Juan County, New Mexico

NOTES FROM INITIAL IMPACT DISCOVERY
AND
INVESTIGATION
4/2-3/2014

BP - Neil A # 6A - Flow line Release Investigation

Unit Ltr. O, Section 33, T32N, R11W, NMPM
API #: 3004522843
Federal lease: SF078051

Imagery Date: 11/17/2013.

Date: 04/03/2014

Test Holes TH1, TH3, TH4 & TH5
appeared to be free of impacts.

Impacts apparently historical in nature
based on discoloration of soil &
bedrock. Impacts started at approx.
1.5 ft. below grade, possibly from
abandon flow line

21 bbl bgt impact dimensions estimation
10 ft. x 10 ft. x 6 ft. (~25 cubic yards)
(impacted interval 6 - 12 ft. below grade)

Previous test hole advanced
on 03/20/2014 & labeled TH1.

Google earth

©2014 Google

80 ft

Sample ID	Time	OVM Reading (ppm)	Sample Description	Comments
TH1 @ 3' (FLR) (grab sample)	0950	667	Dark gray silty sand, slightly moist	85 ft., S54E from well head, discoloration initiated at 1 ½ ft. below grade, gps coordinates: 36.936063°,-107.991553° TPH=490 ppm, Benz.=ND, Tot. BTEX=11.4 ppm
TH1 @ 8' (FLR) (grab sample)	0955	655	Dark gray silty sand, slightly moist	TPH=2,100 ppm, Benz.=0.65 ppm, Tot. BTEX=72.05 ppm
TH1 @ 13' (FLR) (grab sample)	1000	656	Dark gray silty sand, slightly moist	TPH=2,050 ppm, Benz.=0.88 ppm, Tot. BTEX=112.4 ppm
TH2 @ 5' (FLR) (grab sample)	1010	2.2	Dark yellowish orange sand (fill dirt), slightly moist	55 ft., S67E from well head, gps coordinates: 36.936140°,-107.991616°
TH2 @ 10' (FLR) (grab sample)	1015	591	Dark gray sand, slightly moist	Discoloration initiated at 9 ft. below grade
TH2 @ 13.5' (FLR) (grab sample)	1020	297	Dark gray sand, dry to slightly moist	TPH=1,577 ppm, Benz.=5.2 ppm, Tot. BTEX=36.9 ppm
TH3 @ 5' (FLR) (grab sample)	1052	0.0	Dark yellowish orange sand (fill dirt), slightly moist	41 ft., S87E from well head, gps coordinates: 36.936193°,-107.991648°
TH3 @ 10' (FLR) (grab sample)	1058	1.7	Dark yellowish orange sand (fill dirt), slightly moist	
TH3 @ 13' (FLR) (grab sample)	1105	498	Dark gray sand, dry to slightly moist	Discoloration initiated at 11 ft. below grade TPH=140 ppm, Benz.=0.19 ppm, Tot. BTEX=2.39 ppm
TH4 @ 5' (FLR) (grab sample)	1120	5.4	Olive gray silty sand to silty clay, dense, dry to slightly moist	68 ft., S34.5E from well head, gps coordinates: 36.936045°,-107.991656°
TH4 @ 10' (FLR) (grab sample)	1128	337	Olive gray siltstone / claystone bedrock, dense, mostly dry	Discoloration initiated at 9-10 ft. below grade, Sample contained mixture of medium gray to olive gray siltstone / claystone bedrock TPH=9.2 ppm, Benz.=ND, Tot. BTEX=0.08 ppm
TH5 @ 5' (FLR) (grab sample)	1140	0.0	Olive gray silty sand to silty clay, dense, dry to slightly moist	91 ft., S73.5E from well head, gps coordinates: 36.93612°,-107.991490°
TH5 @ 9' (FLR) (grab sample)	1145	0.0	Olive gray siltstone / claystone bedrock, dense, mostly dry	TPH=ND, Benz.=ND, Tot. BTEX=ND
TH6 @ 9' (21) (grab sample)	1158	450	Dark gray silty sand, slightly moist	115 ft., S49E from well head, gps coordinates: 36.935994°,-107.991491° Discoloration initiated at 6 ft. below grade, TPH=4,770 ppm, Benz.=ND, Tot. BTEX=208 ppm

Notes: **OVM** - Organic Vapor Meter, **ppm** - parts per million, **TPH** - Total Petroleum Hydrocarbon, **Benz.** - Benzene, **Tot. BTEX** - Total benzene, toluene, ethylbenzene, & total xylenes.
OVM calibration @ time 1028; reading 52.3 ppm; response factor = 0.52.
OVM recalibration @ time 1033; reading 52.8 ppm (after initial reading of TH1 @ 3' (FLR)).
Google Earth Pro utilized for distance, bearing, & gps coordinates. Imagery Date: 11/17/2013.
Well head gps coordinates: 36.936199°,-107.991788°.