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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

NOV 2 8 2018

DISTRICT III

Incident ID	
District RP	
Facility ID	
Application ID	

NCS 1831935656

Release Notification

Responsible Party

Responsible Party: BP America Production Co.	OGRID: 778	Final Report	
Contact Name: Steve Moskal	Contact Telephone: (505) 330-	-9179	
Contact email: steven.moskal@bpx.com	Incident # (assigned by OCD)	Incident # (assigned by OCD)	
Contact mailing address: 380 Airport Road, Durango CO, 813	03		

Location of Release Source

Latitude: 36.832213°

Longitude: -107.563805° (NAD 83 in decimal degrees to 5 decimal places)

Site Name: NORTHEAST BLANCO UNIT #409A	Site Type: Natural Gas Production Well Pad
Date Release Discovered: October 16, 2018	API#: 3 30-039-29628

Unit Letter	Section	Township	Range	County	og og skrigenske fan til fan de skrige som en skrigenske fan de skrigenske fan de skrigenske skrigenske skrigen
D	10	T30N	R07W	San Juan	NMOCD

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls): 7.5 bbls Volume Recovered (bbls): 0 bbls Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls): Volume Recovered (bbls): Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)

Cause of Release:

Failure of a 6" steel water transfer line in two locations, approximately 550' from one another. Suspect internal corrosion to be the cause. The line has since been removed from service.

Due to BP sampling the release area without required notification, the release was resampled under the supervision of the NMOCD on November 19th, 2018. Attached are the results and associated documentation.

Form C-141

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🛛 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

The released water absorbed into the ground surface.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Steve Moskal

Title: Environmental Coordinator

Signature:

Date: November 27, 2018

email: <u>_____steven.moskal@bpx.com</u>

Telephone: (505) 330-9179

OCD Only

Received by: ____

Date:

Form C-141 Page 3

State of New Mexico **Oil Conservation Division**

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>304</u> (ft bgs)	
Did this release impact groundwater or surface water?		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No	
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No	
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No	

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

Field data

Data table of soil contaminant concentration data
Depth to water determination

- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs (Non-Applicable; surficial water release)
- Photographs including date and GIS information

Topographic/Aerial maps

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141	State of New M	Aexico	Incident ID	
		Oil Conservation Division		
Page 4	On Conservation			
			Facility ID	
			Application	ID
regulations all oper public health or the failed to adequately	t the information given above is true and con rators are required to report and/or file certain e environment. The acceptance of a C-141 re v investigate and remediate contamination that eptance of a C-141 report does not relieve the <u>Steve Moskal</u> Title:	a release notifications and port by the OCD does not at pose a threat to groundw	perform corrective actions for relieve the operator of liability ater, surface water, human he for compliance with any othe nator	releases which may endanger y should their operations have alth or the environment. In
email: <u>steven.r</u>	noskal@bpx,com	Telephone:	(505) 330-9179	
OCD Only				
Received by:		Date	:	

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist:</u> Each of the following items must be included in the plan.			
Detailed description of proposed remediation technique			
Scaled sitemap with GPS coordinates showing delineation points			
Estimated volume of material to be remediated			
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC			
Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)			
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD			
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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater,			
surface water, human health or the environment. In addition, OCD 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.			
Printed Name: Title:			
Signature: Date:			
email: Telephone:			
OCD Only			
Received by: Date:			
Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature: Date:			

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State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist	Each of the following items	s must be included in the closure report.
--	-----------------------------	---

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name:	Steve Moskal	Title:	Environmental Coordinator	
 Signature:	Mary Muy)		Date: November 27, 2018	

Date: November 27, 2018

email: steven.moskal@bpx.com

Telephone: (505) 330-9179

**Based on siting and lab results, no fur The area of release was resampled and witnessed	
OCD Only Received by: Corossa Fields	Date: 11/28/2018
Closure approval by the OCD does not relieve the responsible party of lia and remediate contamination that poses a threat to groundwater, surface responsible party of compliance with any other federal, state, or local laws	water, human health, or the environment nor does not relieve the
Closure Approved by:	Date: 11812019
Printed Name:	Title: nuironmontal Specialist



New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	ed, ,	85 P2				=SW 4=SE	'	AD83 UTM in me	eters)		(in fe	eet)	
	POD Sub-										Log File	Denth	Donth	Lissnes
POD Number	Code basin	County	/ Source	q q q 6416 4	-	Tws	Rng	х	Y	Distance Start Date	Log File Finish Date Date	Well	Depth Water Driller	License Number
SJ 03640	SJ	RA	Shallow	113	3 15	30N	07W	271072	4077061* 🌍	2333 03/25/2006	04/12/2006 06/02/2005	433	241 HARGIS, WILLIAM CALVIN	1508
SJ 02366	SJ	RA	Shallow	1 3	3 15	30N	07W	271062	4077047 🍥	2348 03/20/1992	06/03/1992 06/15/1992	345	225 RILEY, JAY	1223
SJ 02698	SJ	RA	Shallow	1 3	3 15	30N	07W	271173	4076962* 🌍	2418 05/02/1996	05/18/1996 05/31/1996	402	255 GLOVER, PAUL A.	1374
SJ 03946 POD1	SJ	RA	Shallow	424	15	30N	07W	270941	4076902 🌍	2512 03/30/2011	04/03/2011 04/06/2011	455	285 HOOD, TERRY (LD)	717
SJ 04189 POD1	SJAR	SJ	Shallow	123	3 33	31N	07W	270010	4082017 🌍	3015 06/27/2017	07/03/2017 07/14/2017	460	380 BAILEY, MARK	1357
Record Count: 5														

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 271444.33

Northing (Y): 4079364.87

Radius: 3200

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Analytical Report

Report Summary

Client: BP America Production Co. Chain Of Custody Number: Samples Received: 10/17/2018 11:20:00AM Job Number: 03143-0424 Work Order: P810087 Project Name/Location: NEBU 409A

Walter Hinker

Date:

10/24/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

10/24/18 Date:



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 US Highway 64, Farmington, NM 87401

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

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879



BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS-01E Source	P810087-01A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.
SS-02E Mid	P810087-02A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.
SS-03E End	P810087-03A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.
SS-01W Source	P810087-04A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.
SS-02W Mid	P810087-05A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.
SS-03W End	P810087-06A	Soil	10/16/18	10/17/18	Glass Jar, 4 oz.

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BP America Production Co.	Project	Name:	NEB	U 409A					
PO Box 22024	Project	Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	Manager:	Steve	e Moskal		10/24/18 16:	42		
		SS-0	1E Sour	·ce					
			87-01 (Sc	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1842026	10/19/18	10/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	50	-150	1842026	10/19/18	10/22/18	EPA 8015D	
Surrogate: n-Nonane		135 %	50	-200	1842028	10/19/18	10/19/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	879	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A	

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BP America Production Co.	Project	Name:	NEB	U 409A							
PO Box 22024	Project	Number:	0314	3-0424				Reported:			
Tulsa OK, 74121-2024	Project	Project Manager:			Steve Moskal						
		SS	-02E Mi	d							
			87-02 (Se	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1842026	10/19/18	10/22/18	EPA 8021B			
Nonhalogenated Organics by 8015											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	50-	-150	1842026	10/19/18	10/22/18	EPA 8015D			
Surrogate: n-Nonane		132 %	50-	-200	1842028	10/19/18	10/19/18	EPA 8015D			
Anions by 300.0/9056A											
Chloride	625	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A			

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BP America Production Co.	Project	Name:	NEB	U 409A							
PO Box 22024	Project	Number:	0314	3-0424				Reported:			
Tulsa OK, 74121-2024	Project	Project Manager:			Steve Moskal						
		P8100	87-03 (Se	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1842026	10/19/18	10/22/18	EPA 8021B			
Nonhalogenated Organics by 8015											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	50	-150	1842026	10/19/18	10/22/18	EPA 8015D			
Surrogate: n-Nonane		133 %	50	-200	1842028	10/19/18	10/19/18	EPA 8015D			
Anions by 300.0/9056A											
Chloride	449	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A			



BP America Production Co.	Project	Name:	NEB	U 409A							
PO Box 22024	Project	0314	3-0424				Reported:				
Tulsa OK, 74121-2024	Project	Project Manager:			Steve Moskal						
		P8100	87-04 (Se	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	1842026	10/19/18	10/22/18	EPA 8021B			
Nonhalogenated Organics by 8015											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	50	-150	1842026	10/19/18	10/22/18	EPA 8015D			
Surrogate: n-Nonane		136 %	50	-200	1842028	10/19/18	10/19/18	EPA 8015D			
Anions by 300.0/9056A											
Chloride	760	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A			

5796 US Highway 64, Farmington, NM 87401

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BP America Production Co.	Project	t Name:	NEB	U 409A							
PO Box 22024	Project	t Number:	0314	3-0424				Reported:			
Tulsa OK, 74121-2024	K, 74121-2024 Project Manager:				Steve Moskal						
		SS-	02W Mi	id							
			87-05 (Se	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1842026	10/19/18	10/22/18	EPA 8021B			
Nonhalogenated Organics by 8015											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	50	-150	1842026	10/19/18	10/22/18	EPA 8015D			
Surrogate: n-Nonane		137 %	50	-200	1842028	10/19/18	10/19/18	EPA 8015D			
Anions by 300.0/9056A											
Chloride	1190	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A			

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BP America Production Co.	Project	Name:	NEB	U 409A					
PO Box 22024	Project	Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	Steve	e Moskal		10/24/18 16:42				
	SS-03W End								
			87-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842026	10/19/18	10/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	1842026	10/19/18	10/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		97.5 %	50-	-150	1842026	10/19/18	10/22/18	EPA 8015D	
Surrogate: n-Nonane		130 %	50-	-200	1842028	10/19/18	10/19/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	415	20.0	mg/kg	1	1843008	10/23/18	10/23/18	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1842026 - Purge and Trap EPA 503	0A									
Blank (1842026-BLK1)				Prepared:	10/18/18 1 A	nalyzed: 1	10/19/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100								
p,m-Xylene	ND	200	"							
o-Xylene	ND	100								
Total Xylenes	ND	100								
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7990		"	8000		99.9	50-150			
LCS (1842026-BS1)				Prepared:	10/18/18 1 A	analyzed: 1	10/19/18 1			
Benzene	5460	100	ug/kg	5000		109	70-130			
Toluene	5520	100	"	5000		110	70-130			
Ethylbenzene	5570	100		5000		111	70-130			
p,m-Xylene	11400	200		10000		114	70-130			
o-Xylene	5480	100	"	5000		110	70-130			
Total Xylenes	16900	100	"	15000		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7900		"	8000		98.8	50-150			
Matrix Spike (1842026-MS1)	Sou	rce: P810093-	01	Prepared:	10/18/18 1 A	nalyzed: 1	0/19/18 1			
Benzene	5870	100	ug/kg	5000	ND	117	54.3-133			
Toluene	5890	100		5000	ND	118	61.4-130			
Ethylbenzene	5960	100	"	5000	ND	119	61.4-133			
p,m-Xylene	12200	200	"	10000	ND	122	63.3-131			
o-Xylene	5850	100	"	5000	ND	117	63.3-131			
Total Xylenes	18000	100		15000	ND	120	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7830		"	8000		97.9	50-150			
Matrix Spike Dup (1842026-MSD1)	Sou	rce: P810093-	01	Prepared:	10/18/18 1 A	nalyzed: 1	0/19/18 1			
Benzene	5750	100	ug/kg	5000	ND	115	54.3-133	2.05	20	
Toluene	5780	100		5000	ND	116	61.4-130	1.88	20	
Ethylbenzene	5850	100		5000	ND	117	61.4-133	1.89	20	
p,m-Xylene	11900	200	"	10000	ND	119	63.3-131	1.82	20	
o-Xylene	5740	100		5000	ND	115	63.3-131	1.92	20	
Total Xylenes	17700	100		15000	ND	118	63.3-131	1.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7840		"	8000		98.1	50-150			

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			•							
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1842026 - Purge and Trap EPA 5030A										
Blank (1842026-BLK1)				Prepared: 1	10/18/18 1 4	Analyzed: 1	0/19/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		"	8.00		97.1	50-150			
LCS (1842026-BS2)				Prepared: 1	10/18/18 1 A	Analyzed: 1	0/19/18 1			
Gasoline Range Organics (C6-C10)	42.5	20.0	mg/kg	50.0		85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-F1D	8.04		"	8.00		100	50-150			
Matrix Spike (1842026-MS2)	Sou	rce: P810093-	01	Prepared: 1	10/18/18 1 A	Analyzed: 1	0/19/18 1			
Gasoline Range Organics (C6-C10)	50.9	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		"	8.00		97.5	50-150			
Matrix Spike Dup (1842026-MSD2)	Sou	rce: P810093-	01	Prepared: 1	10/18/18 1 A	Analyzed: 1	0/19/18 1			
Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0	ND	101	70-130	1.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		"	8.00		102	50-150			

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1842028 - DRO Extraction EPA 3570										
Blank (1842028-BLK1)				Prepared:	10/19/18 0 4	Analyzed: 1	0/22/18 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	60.4		"	50.0		121	50-200			
LCS (1842028-BS1)				Prepared:	10/19/18 0 4	Analyzed: 1	0/19/18 1			
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	60.5		"	50.0		121	50-200			
Matrix Spike (1842028-MS1)	Sour	rce: P810094-	01	Prepared:	10/19/18 0 4	Analyzed: 1	0/19/18 1			
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.8	38-132			
Surrogate: n-Nonane	62.5		"	50.0		125	50-200			
Matrix Spike Dup (1842028-MSD1)	Sour	rce: P810094-	01	Prepared:	10/19/18 0 A	Analyzed: 1	0/19/18 1			
Diesel Range Organics (C10-C28)	506	25.0	mg/kg	500	ND	101	38-132	6.41	20	
Surrogate: n-Nonane	62.9		"	50.0		126	50-200			

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

			-		-					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1843008 - Anion Extraction EPA 30	00.0/9056A									
Blank (1843008-BLK1)				Prepared &	Analyzed:	10/23/18 1				
Chloride	ND	20.0	mg/kg							
LCS (1843008-BS1)				Prepared &	Analyzed:	10/23/18 1				
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1843008-MS1)	Sour	ce: P810085-	01	Prepared &	Analyzed:	10/23/18 1				
Chloride	775	20.0	mg/kg	250	530	97.9	80-120			
Matrix Spike Dup (1843008-MSD1)	Sour	ce: P810085-	01	Prepared &	Analyzed:	10/23/18 1				
Chloride	751	20.0	mg/kg	250	530	88.5	80-120	3.08	20	

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/24/18 16:42

Notes and Definitions

DET	Analyte DETECTED
-----	------------------

ND	Analyte NOT DETECTED at or above the reporting limit
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NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Project Information				Cha	in of Custody												Pag	e	of
Client: 28				Report Atter			1.00	La	b Us	se Oi	nly		a la	T	AT		EPA	Progra	am
Project: NEBU 40	9A		_	Report due by:	rd TAT	Lab	WO	#				nber			3D	RCR	A (CWA	SDWA
Project Manager: Se	remosk	al	_	Attention: Acre Most	(c)	P	5100	187		03	5143	3-0	424						
Address: 30 M. Aire	and and		_	Address:						Analy	sis ar	nd M	etho	d				Sta	ate
City, State, Zip Durow	DO CA &	1303	_	City, State, Zip		13	15			1				1			N	V CO	UT AZ
Phone: 505-330-91	74			Phone:		DRO/ORO by 8015	GRO/DRO by 8015	A			10								
Email: Aeren mest	ol What	(h)A		Email:		d O	Q P	802	826(5010	300	1					12		
Time Date	No		0		Lab	10/0	HO/O	Xby	þ	als (oride	TPH 418.1						Day	
Sampled Sampled Mat	Container:	s Sample I	D		Number	DRC	GRO	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH						Ken	narks
1330 10/16/18 501	1-40	2 55-0	DES	olirce		X	+	5			X								
B35 / /	1	55-0			2	X	1	X			<								
1340	1				3	X	X	X			X								
1400		55-0 55-0 55-0	142 5	al ree	4	X	X	<			x								
1405		55-0	24.1)	min	5		X	X			X								
1410		55-0	312	Ea-l	6	K		X			X								
														-					
					1.00					ļ				L					
Additional Instruction	s:													I	11				
I, (field sampler), attest to the valid time of collection is considered fra				re that tampering with or intentionally misla pled by:		n, date o	or									e received o out less than			re sampled or t days.
Relinquished by: (Signature		and the second se	Time	Received by: (Signature)	Date		Time							12	abus	e Only	,		
Ameritic	14	117/18	11:21		1011711	9	11:	0		Roc	aiva	d on	ice.		P/				
Relinquished by: (Signature) Dat	e	Time	Received by: (Signature)	Date		Time			T1	i Ter			<u>T2</u>			<u>_ T3</u>		
Sample Matrix: S - Soil, Sd - So	lid, Sg - Sludge	A - Aqueous.	O - Other		Containe	r Tvp	e:g-	glass	5. D -			other Designation of the local division of the local division of the local division of the local division of the	Training and Party of the local division of	mber		. v - VC)A		
Note: Samples are discarded 3	D days after re	sults are repor	ted unless	other arrangements are made. Hazar y with this COC. The liability of the lal	dous samples will be re	eturned	to cli	ent or	dispo	sed of	at the		the second se		the second se	and the second se		ysis of t	he above
					-														
Benvi				5796 US Highway 64, F	armington, NM 87401				Ph	(505) 63	2-0615	F x (505	632-18	865					envirotech-ind
Anal	ytical Lo	borator	Y	Three Springs - 65 Men	cado Street, Suite 115, Durango, G	0 81301			Ph	(970) 25	9-0615	Fr (800) 362-18	379				laboratory	envirotech in

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Analytical Report

Report Summary

Client: BP America Production Co. Chain Of Custody Number: Samples Received: 11/19/2018 3:07:00PM Job Number: 03143-0424 Work Order: P811058 Project Name/Location: NEBU 409A

Walter Hindes

Date:

11/26/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 11/26/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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	BP America Production Co.	Project Name:	NEBU 409A	
1	PO Box 22024	Project Number:	03143-0424	Reported:
	Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Release 10-pt Comp	P811058-01A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
East Release 10-pt Comp	P811058-02A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.

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BP America Production Co.	Project	Name:	NEB	U 409A					
PO Box 22024	Project	Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	Manager:	Steve	e Moskal				11/26/18 16:	35
		West Rele	ease 10-p	t Comp					
		P8110	58-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847006	11/19/18	11/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847006	11/19/18	11/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		90.2 %	50-	-200	1847006	11/19/18	11/21/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1600	20.0	mg/kg	1	1847012	11/20/18	11/20/18	EPA 300.0/9056A	

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BP America Production Co.	Project	Name:	NEB	U 409A					
PO Box 22024	Project	Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	Manager:	Steve	e Moskal				11/26/18 16:	35
		East Rele	ase 10-p	t Comp					
r		and the second se	58-02 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.9%	50	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847006	11/19/18	11/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847006	11/19/18	11/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50	-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		88.5 %	50	-200	1847006	11/19/18	11/21/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1580	20.0	mg/kg	1	1847012	11/20/18	11/20/18	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

[
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100								
Ethylbenzene	ND	100								
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7900		"	8000		98.8	50-150			
LCS (1847017-BS1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Benzene	5070	100	ug/kg	5000		101	70-130			
Toluene	5180	100		5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5230	100	"	5000		105	70-130			
Total Xylenes	16000	100	"	15000		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			
Matrix Spike (1847017-MS1)	Sou	irce: P811050-	01	Prepared:	11/20/18 0 A	analyzed: 1	1/21/18 0			
Benzene	5370	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5500	100	"	5000	ND	110	61.4-130			
Ethylbenzene	5600	100	"	5000	ND	112	61.4-133			
p,m-Xylene	11400	200	"	10000	ND	114	63.3-131			
o-Xylene	5520	100	"	5000	ND	110	63.3-131			
Total Xylenes	17000	100	"	15000	ND	113	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			-
Matrix Spike Dup (1847017-MSD1)	Sou	irce: P811050-	01	Prepared:	11/20/18 0 A	nalyzed: 1	1/20/18 2			
Benzene	5270	100	ug/kg	5000	ND	105	54.3-133	1.89	20	
Toluene	5410	100	"	5000	ND	108	61.4-130	1.76	20	
Ethylbenzene	5510	100	"	5000	ND	110	61.4-133	1.54	20	
p,m-Xylene	11300	200	"	10000	ND	113	63.3-131	1.43	20	
o-Xylene	5470	100	"	5000	ND	109	63.3-131	0.982	20	
Total Xylenes	16800	100	"	15000	ND	112	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615 Fr (800) 362-1879	laboratory@envirotech-in



BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			-		-					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847006 - DRO Extraction EPA 3570										
Blank (1847006-BLK1)				Prepared:	11/19/18 1 4	Analyzed: 1	1/19/18 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0								
Surrogate: n-Nonane	44.4		"	50.0		88.8	50-200			
LCS (1847006-BS1)				Prepared:	11/19/18 1 A	Analyzed: 1	1/20/18 0			
Diesel Range Organics (C10-C28)	479	25.0	mg/kg	500		95.8	38-132			
Surrogate: n-Nonane	43.6		"	50.0		87.2	50-200			
Matrix Spike (1847006-MS1)	Sou	rce: P811041-	01	Prepared:	11/19/18 1 A	Analyzed: 1	1/20/18 0			
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.7	38-132			
Surrogate: n-Nonane	39.5		"	50.0		79.0	50-200			
Matrix Spike Dup (1847006-MSD1)	Sou	rce: P811041-	01	Prepared:	11/19/18 1 A	Analyzed: 1	1/20/18 0			
Diesel Range Organics (C10-C28)	502	25.0	mg/kg	500	ND	100	38-132	5.92	20	
Surrogate: n-Nonane	40.5		"	50.0		80.9	50-200			

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PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			·		•					
Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared:	11/20/18 0 4	Analyzed: 1	1/20/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
LCS (1847017-BS2)				Prepared:	11/20/18 0 4	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		"	8.00		106	50-150			
Matrix Spike (1847017-MS2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 4	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		"	8.00		105	50-150			
Matrix Spike Dup (1847017-MSD2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 4	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.1	70-130	16.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847012 - Anion Extraction EPA 3	00.0/9056A									
Blank (1847012-BLK1)				Prepared &						
Chloride	ND	20.0	mg/kg							
LCS (1847012-BS1)				Prepared &	Analyzed:	11/19/18 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1847012-MS1)	Sour	Source: P811050-01			Analyzed:	11/19/18 1				
Chloride	333	20.0	mg/kg	250	73.8	104	80-120			
Matrix Spike Dup (1847012-MSD1)	rix Spike Dup (1847012-MSD1) Source: P811050-01					11/19/18 1				
Chloride	332	20.0	mg/kg	250	73.8	103	80-120	0.457	20	

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BP America Production Co.	Project Name:	NEBU 409A	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/26/18 16:35

Notes and Definitions

DET	Analyte DETECTED
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ND	Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Project I	nformati	on					Chain of Cu	istody											ł	Page	of
Client: 3P AMERICA						Report Attention Report due by: STANDAGE TAT			SER.	S. Cal	La	b Us	Jse Only				TA	r	E	am	
Project: NEBU 409A					Lab WO# Pollo58				Job Number				1D 3	D	RCRA	CWA	SDWA				
Project	Manager	: Steve	Moskal			Attention: STEVE	N MOSKAL JEE	F BLAUS	PE	3110	58		031	43-	0421	4					
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1058	11/19/2018	SOIL	1	WEST RE	LEASE	10-pt comp		1	\times	×	×			X							
1123	1)	н	1	EAST RE	LEASE	10-pt comp		2	\times	×	×			\times							
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amples is a								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA us samples will be returned to client or disposed of at the client expense. The report for the analysis of raotry is limited to the amount paid for on the report.								the above					
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