

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Simcoe LLC	OGRID 329736
Contact Name Sabre Beebe	Contact Telephone (970) 852-5172
Contact email sabre.beebe@ikavenergy.com	Incident # (assigned by OCD) NRM2007957117
Contact mailing address 1199 Main Ave. Suite 101, Durango, CO 81301	

### Location of Release Source

Latitude 36.867654 Longitude -107.550693  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Northeast Blanco Unit Trunk B2 Waterline	Site Type Water Transfer Pipeline
Date Release Discovered 3/8/2020	API# (if applicable) NA

Unit Letter	Section	Township	Range	County
H	27	31N	7W	San Juan

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 120	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Release of produced water from a produced water transfer pipeline failure.

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 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: Sabre Beebe Title: Field Environmental Coordinator

Signature: Sabre Beebe Date: 2/9/2023

email: sabre.beebe@ikavenergy.com Telephone: (970) 852-5172

**OCD Only**

Received by: Jocelyn Harimon Date: 02/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 03/20/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



P.O. Box 1653  
Durango, Colorado 81302  
(970) 764-7356  
[www.cottonwoodconsulting.com](http://www.cottonwoodconsulting.com)

February 9, 2023

Jocelyn Harimon  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, NM 87410

**RE: Northeast Blanco Unit Trunk B 2 Waterline  
Incident ID NRM2007957117  
Closure Report  
San Juan Basin, Colorado**

Dear Ms. Harimon,

Cottonwood Consulting LLC (Cottonwood), on behalf of Simcoe LLC (Simcoe), is respectfully requesting closure related to the release at the Northeast Blanco Unit Trunk B 2 Waterline (Incident ID NRM2007957117).

## **Background**

On March 8, 2020, a release was discovered at the Northeast Blanco Unit Trunk B 2 operated by Simcoe. The cause of the release was an unknown failure in the water transfer pipeline, resulting in approximately 120 barrels of produced water flowing off of the pipeline right-of-way and onto an area dominated by shallow bedrock at or near the ground surface, and vegetation consisting of sage, rabbitbrush, and pinon-juniper. A New Mexico Oil Conservation Division (NMOCD) Form C-141 was submitted to the NMOCD and the project was assigned Incident ID NRM2007957117.

## **Sampling and Remediation**

Initial soil sampling conducted on March 9, 2020 indicated that chloride exceeded the NMOCD standard of 600 milligrams per kilogram (mg/kg) in the samples collected at 0-200 feet (ft), 200-400 ft, and 600-800 ft from the point of release. Samples collected at the terminus, 400-600 ft, 800-1,000 ft, and 1,000-1,100 ft passed for chloride. All samples from March 9, 2020 passed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

Excavation, associated confirmation sampling, and sampling along the right-of-way occurred on March 16, 2020 and results indicated that all samples passed for chloride and were non-detect for TPH and BTEX. Subsequent sampling on April 19, 2020 indicated that the sample collected at 600-800 ft from the point of release failed for chloride, but all other samples passed. In summer 2020, a gypsum amendment was applied to the flow path and in June 2020, the NMOCD approved Simcoe's plan to conduct regular monitoring and sampling until chloride levels reached closure guidelines.

Cottonwood Consulting LLC

Harimon, J.  
Page 2

Sampling at 600-800 ft occurred again on May 20, 2020 and July 22, 2020 and indicated that chloride levels were still above the NMOCD standard. Finally, a sample collected at 600-800 ft on October 7, 2020 indicated a chloride level below the NMOCD standard.

Soil samples were collected from available soil on top of shallow bedrock. Shallow bedrock was observed across the site; see attached photographs for details. The shallow bedrock prohibited the collection of samples from depths below the ground surface (bgs); therefore, it was not possible to sample to 4 feet bgs per the NMOCD reclamation standards. Based on the presence of shallow bedrock and the estimated depth to groundwater being greater than 100 feet bgs at the site, the threat posed by the release to groundwater is considered low.

Due to the presence of shallow bedrock and soil sampling results indicating all parameters in compliance with NMOCD standards, no additional excavation is planned at the site. Aerial maps, a soil sampling results summary table, photographs, relevant notification emails, and laboratory analytical reports are attached.

### Closure Request

Based on the results of soil sampling indicating all parameters in compliance with NMOCD standards and the presence of shallow bedrock across the site, Simcoe is requesting closure of this spill.

Should you have any questions regarding this closure request, please do not hesitate to contact Sabre Beebe at [sabre.beebe@ikavenergy.com](mailto:sabre.beebe@ikavenergy.com).

Sincerely,



Kyle Siesser, P.G.  
Cottonwood Consulting, LLC

Attachments: Sample Map  
Lab Test Results Summary  
Email Notifications  
Groundwater, Karst, and FEMA Evaluations  
Lab Reports  
Lab Chain-of-Custody Records  
Closure Photos  
Laboratory Quality Control/Quality Assurance

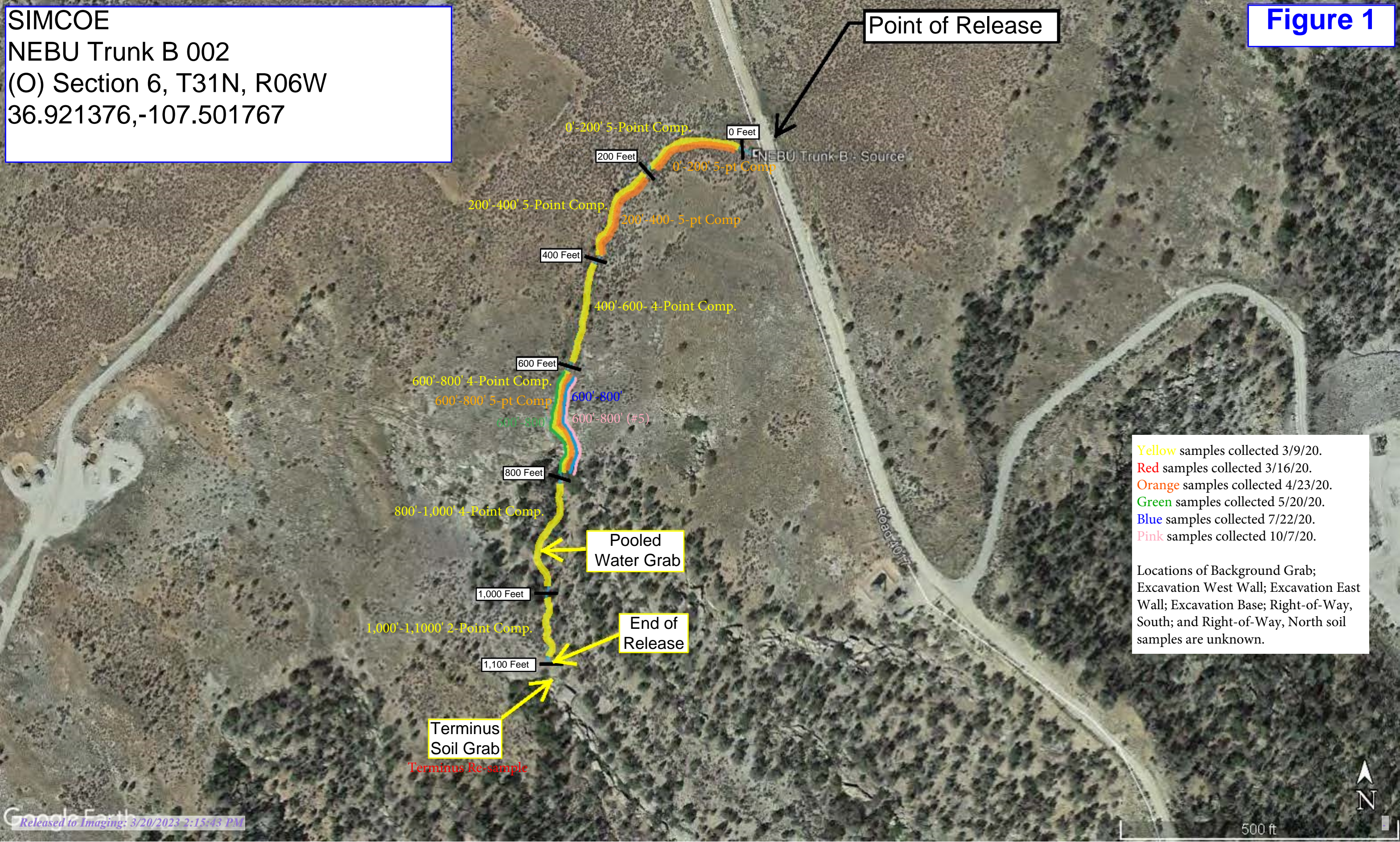
Cottonwood Consulting LLC

# SAMPLE MAP



SIMCOE  
NEBU Trunk B 002  
(O) Section 6, T31N, R06W  
36.921376,-107.501767

Figure 1





# LAB TEST RESULT SUMMARY

# Simcoe LLC

## NEBU Trunk B 002

(O) Sec 06 - T31N - R06W, San Juan County, New Mexico  
Produced Water Transfer Pipeline Release Test Results

Incident #: NRM2007957117

Sample ID	Sample Type	Date Sampled	Time Sampled	Benzene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO + DRO) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
Pooled Water Grab	Grab	03/09/20	0940	Water sample - see attached lab report.							
Terminus Soil Grab	Grab	03/09/20	1050	ND	ND	ND	124	ND	124	124	ND
<b>0'-200' 5-Point Comp.</b>	5 pt. Comp.	03/09/20	1147	ND	ND	ND	ND	ND	ND	ND	<b>724</b>
<b>200'-400' 5-Point Comp.</b>	5 pt. Comp.	03/09/20	1153	ND	ND	ND	57.2	ND	57.2	57.2	<b>1,380</b>
400'-600' 4-Point Comp.	4 pt. Comp.	03/09/20	1201	ND	ND	ND	ND	ND	ND	ND	573
<b>600'-800' 4-Point Comp.</b>	4 pt. Comp.	03/09/20	1206	ND	ND	ND	ND	ND	ND	ND	<b>627</b>
800'-1,000' 4-Point Comp.	4 pt. Comp.	03/09/20	1214	ND	ND	ND	ND	ND	ND	ND	560
1,000'-1,100' 2-Point Comp.	2 pt. Comp.	03/09/20	1216	ND	ND	ND	ND	ND	ND	ND	424
Background Grab	Grab	03/09/20	1228	ND	ND	ND	ND	ND	ND	ND	ND
Terminus Re-sample	Grab	03/16/20	1142	ND	ND	ND	ND	ND	ND	ND	ND
Excavation West Wall	Grab	03/16/20	1200	ND	ND	ND	ND	ND	ND	ND	357
Excavation East Wall	Grab	03/16/20	1205	ND	ND	ND	ND	ND	ND	ND	176
Excavation Base	Grab	03/16/20	1210	ND	ND	ND	ND	ND	ND	ND	195
Right-of-Way, South	Grab	03/16/20	1223	ND	ND	ND	ND	ND	ND	ND	246
Right-of-Way, North	Grab	03/16/20	1223	ND	ND	ND	ND	ND	ND	ND	375
<b>0'-200' 5-pt Comp</b>	5 pt. Comp.	04/23/20	0916	-	-	-	-	-	-	-	<b>598</b>
<b>200'-400' 5-pt Comp</b>	5 pt. Comp.	04/23/20	0922	-	-	-	-	-	-	-	<b>507</b>
<b>600'-800' 5-pt Comp</b>	5 pt. Comp.	04/23/20	0928	-	-	-	-	-	-	-	<b>700</b>
<b>600'-800'</b>	5 pt. Comp.	05/20/20	1052	-	-	-	-	-	-	-	<b>1,040</b>
<b>600'-800'</b>	5 pt. Comp.	07/22/20	1020	-	-	-	-	-	-	-	<b>1,160</b>
<b>600'-800' (#5)</b>	5 pt. Comp.	10/07/20	0940	-	-	-	-	-	-	-	<b>347</b>
NMOCD Site Closure Standards -				<b>10</b>	<b>50</b>				<b>1,000</b>	<b>2,500</b>	<b>600</b>

Notes: Comp. – Composite; OVM – Organic Vapor Meter; ppm – parts per million; mg/Kg – milligrams per kilogram; BTEX – benzene, toluene, ethylbenzene, total xylenes; TPH – Total Petroleum Hydrocarbons; GRO – Gasoline Range Organics; DRO – Diesel Range Organics; MRO or ORO – Motor Oil Range Organics; ND – Not detected at laboratory reporting limit; (-) – Not Analyzed.

**Red and bold** values exceed NMOCD standard. **Bold** values are samples that previously exceeded the NMOCD standard, but on resampling, have passed.



# EMAIL NOTIFICATIONS

**From:** Steven Moskal <[Steven.Moskal@BPX.COM](mailto:Steven.Moskal@BPX.COM)>  
**Sent:** Tuesday, June 16, 2020 9:34 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [slandon@blm.gov](mailto:slandon@blm.gov)  
**Cc:** Blagg, Jefferey <[jeffcblagg@aol.com](mailto:jeffcblagg@aol.com)>; Adeloye, Abiodun <[aadeloye@blm.gov](mailto:aadeloye@blm.gov)>  
**Subject:** [EXT] NEBU Trunk B 2 Remediation Update

Cory and Sherry,

The soil conditions at the NEBU Trunk B 2 (NRM2007957117) continues to exhibit elevated chloride levels after the application and raking of gypsum. Particularly in the 600-800' section of the release flow path; all other sections are below the NMOCD guidelines. We believe that the rain from the monsoons could help with the interaction of the gypsum amendment and help degrade the chloride levels. BP proposes to continue with soil sampling and monitoring over the next few months to determine the effectiveness of the gypsum application and rains.

With your approval, BP will sample and observe this area monthly until levels meet the closure guidelines until September 30, 2020. At that time, we will reassess if needed.

Please let me know your thoughts.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpX energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)



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**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Tuesday, June 16, 2020 10:19 AM  
**To:** Steven Moskal <[Steven.Moskal@BPX.COM](mailto:Steven.Moskal@BPX.COM)>; [slandon@blm.gov](mailto:slandon@blm.gov)  
**Cc:** Blagg, Jefferey <[jeffcblagg@aol.com](mailto:jeffcblagg@aol.com)>; Adeloye, Abiodun <[aadeloye@blm.gov](mailto:aadeloye@blm.gov)>  
**Subject:** RE: NEBU Trunk B 2 Remediation Update

Steve,

OCD approves the extension request until September 30, 2020

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

**From:** Steven Moskal  
**Sent:** Thursday, October 1, 2020 11:26 AM  
**To:** Smith, Cory, EMNRD; [slandon@blm.gov](mailto:slandon@blm.gov)  
**Cc:** Kyle Siesser; Adeloye, Abiodun; Nelson Velez  
**Subject:** RE: NEBU Trunk B 2 Remediation Update

Cory and Sherrie,

BP plans to conduct a subsequent sampling of the 600-800' section of the NEBU Trunk B 2 produced water release on Wednesday 10/7 at 9am. NMOCD Incident # NRM2007957117.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101 | Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)



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# GROUNDWATER KARST FEMA EVALUATIONS

### **Depth to Groundwater Evaluation for the NEBU Trunk B #2**

Depth to groundwater at the site is estimated to be greater than 100 feet below ground surface (bgs). This estimation is based on data from Stone et al (1983), depth to groundwater data obtained from points of diversion (including water wells) permitted by the New Mexico Office of the State Engineer (OSE), and USGS topographic maps. Local topography and proximity to adjacent water features was also considered.

Based on a review of New Mexico OSE data and USGS topographic maps, there is one surface water diversion feature and no water wells within one mile of the NEBU Trunk B #2. The NEBU Trunk B #2 is located approximately 2,050 feet from Navajo Reservoir and an elevation of approximately 240 feet above the reservoir. See Figure 2 for a map of groundwater and surface water resources in the project area.

### **Karst Evaluation for the NEBU Trunk B #2**

Based on data from Weary and Doctor and the US Geological Survey, the nearest karst formations are carbonate and are located approximately 38 miles north and 48 miles southeast of the NEBU Trunk B #2. No karst formations are present in the project area. See Figure 3 for a map of karst formations.

### **FEMA Floodplain Evaluation**

The project area is located in Zone X, an area of minimal flood hazard, based on data from the Federal Emergency Management Agency (FEMA). See Figure 3 for data from FEMA's National Flood Hazard Layer.

### **Citations**

Federal Emergency Management Agency, 2023, National Flood Hazard Layer FIRMette

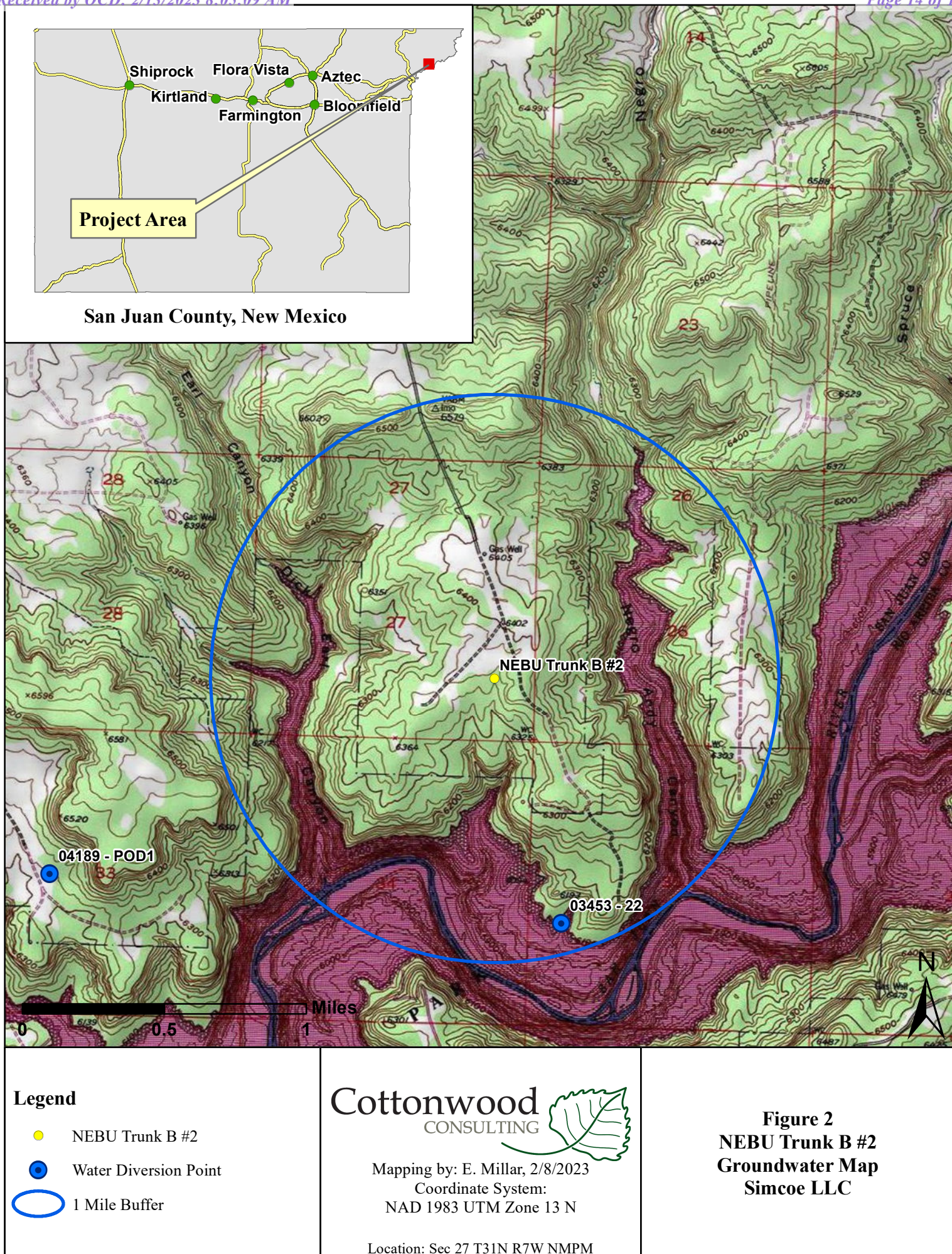
Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6

U.S. Geological Survey, 2004, Open-File Report 2004-1352

U.S. Geological Survey, 2020, Navajo Dam 7.5' Topographic Map

Weary, David and Daniel Doctor, 2014, Karst in the United States: A Digital Map Compilation and Database







**Legend**

● NEBU Trunk B #2

**Karst Type**

- Carbonate
- Erosional
- Gypsum
- Volcanic

**Cottonwood**  
CONSULTING

Mapping by: E. Millar, 2/8/2023  
Coordinate System:  
NAD 1983 UTM Zone 13 N

Location: Sec 27 T31N R7W NMPM

**Figure 3**  
**NEBU Trunk B #2**  
**Karst Evaluation Map**  
**Simcoe LLC**



# National Flood Hazard Layer FIRMette



107°33'25"W 36°52'12"N

Figure 4



### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/8/2023 at 11:14 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# LAB REPORTS





BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

**Pooled Water Grab  
P003041-01 (Water)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	1.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
Toluene	ND	1.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
Ethylbenzene	ND	1.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
p,m-Xylene	ND	2.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
o-Xylene	ND	1.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
Total Xylenes	ND	1.00	ug/L	1	2011007	03/09/20	03/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011007	03/09/20	03/09/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	1.00	mg/L	1	2011009	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	2.00	mg/L	1	2011009	03/09/20	03/10/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.2 %		50-200	2011009	03/09/20	03/10/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	0.100	mg/L	1	2011007	03/09/20	03/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %		50-150	2011007	03/09/20	03/09/20	EPA 8015D	

**Dissolved Metals by 6010**

Calcium	36.5	2.00	mg/L	2	2011013	03/10/20	03/11/20	EPA 6010C	
Iron	ND	4.00	mg/L	2	2011013	03/10/20	03/11/20	EPA 6010C	
Magnesium	31.8	2.00	mg/L	2	2011013	03/10/20	03/11/20	EPA 6010C	
Potassium	41.0	2.00	mg/L	2	2011013	03/10/20	03/11/20	EPA 6010C	
Sodium	4860	100	mg/L	50	2011013	03/10/20	03/11/20	EPA 6010C	

**Anions by 300.0/9056A**

Fluoride	ND	12.5	mg/L	50	2011015	03/10/20	03/10/20	EPA 300.0/9056A	
Chloride	3040	100	mg/L	50	2011015	03/10/20	03/10/20	EPA 300.0/9056A	
Nitrite-N	ND	12.5	mg/L	50	2011015	03/10/20 08:57	03/10/20 10:41	EPA 300.0/9056A	
Nitrate-N	ND	12.5	mg/L	50	2011015	03/10/20 08:57	03/10/20 10:41	EPA 300.0/9056A	
o-Phosphate-P	ND	12.5	mg/L	50	2011015	03/10/20 08:57	03/10/20 10:41	EPA 300.0/9056A	
Sulfate	ND	100	mg/L	50	2011015	03/10/20	03/10/20	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

**Terminus Soil Grab  
P003041-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2011005	03/09/20	03/10/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	124	25.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.3 %		50-200	2011008	03/09/20	03/10/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %		50-150	2011005	03/09/20	03/10/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2011012	03/10/20	03/10/20	EPA 300.0/9056A	
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**Cation/Anion 10:1 Leach Procedure**

Sodium Absorption Ratio	15.7		N/A	1	2012005	03/16/20	03/16/20	[CALC]	
Calcium	2.81	2.00	mg/L	2	2011046	03/13/20	03/13/20	EPA 6010C	
Magnesium	5.91	2.00	mg/L	2	2011046	03/13/20	03/13/20	EPA 6010C	
Sodium	202	4.00	mg/L	2	2011046	03/13/20	03/13/20	EPA 6010C	

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

Terminus Soil Grab  
P003041-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chemistry

pH @25°C	9.31		pH Units	1	2012003	03/16/20	03/16/20	EPA 9045D	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

**0'-200' 5-Point Comp.  
P003041-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2011005	03/09/20	03/10/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011008	03/09/20	03/10/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		94.4 %		50-200	2011008	03/09/20	03/10/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011005	03/09/20	03/10/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %		50-150	2011005	03/09/20	03/10/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	724	20.0	mg/kg	1	2011012	03/10/20	03/10/20	EPA 300.0/9056A	
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**Cation/Anion 10:1 Leach Procedure**

Sodium Absorption Ratio	0.00		N/A	1	2012005	03/16/20	03/16/20	[CALC]	
Calcium	3.71	1.00	mg/L	1	2011046	03/13/20	03/13/20	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	2011046	03/13/20	03/13/20	EPA 6010C	
Sodium	ND	2.00	mg/L	1	2011046	03/13/20	03/13/20	EPA 6010C	

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

0'-200' 5-Point Comp.  
P003041-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chemistry

pH @25°C	8.26		pH Units	1	2012003	03/16/20	03/16/20	EPA 9045D	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**200'-400' 5-Point Comp.  
P003050-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	57.2	25.0	mg/kg	1	2011036	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/13/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.3 %		50-200	2011036	03/12/20	03/13/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	1380	100	mg/kg	5	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**400'-600' 4-Point Comp.  
P003050-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011036	03/12/20	03/13/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/13/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		80.4 %		50-200	2011036	03/12/20	03/13/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	573	20.0	mg/kg	1	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**600'-800' 4-Point Comp.  
P003050-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		70.8 %		50-200	2011036	03/12/20	03/14/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	627	20.0	mg/kg	1	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**800'-1000' 4-Point Comp.  
P003050-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.1 %		50-200	2011036	03/12/20	03/14/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	560	20.0	mg/kg	1	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**1000'-1100' 2-Point Comp.  
P003050-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		77.4 %		50-200	2011036	03/12/20	03/14/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	424	20.0	mg/kg	1	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

**Background Grab  
P003050-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2011019	03/11/20	03/12/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2011036	03/12/20	03/14/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.1 %		50-200	2011036	03/12/20	03/14/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2011019	03/11/20	03/12/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %		50-150	2011019	03/11/20	03/12/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2011042	03/13/20	03/13/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/18/20 08:11
PO Box 22024	Project Number:	03142-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

**Terminus Re-Sample  
P003086-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.2 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

**Excavation West Wall  
P003086-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		84.5 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.7 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	357	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

**Excavation East Wall  
P003086-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.2 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	176	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

**Excavation Base  
P003086-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		83.4 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	195	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

**Right-of-Way, South  
P003086-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.8 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	246	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

**Right-of-Way, North  
P003086-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2012001	03/16/20	03/17/20	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012010	03/16/20	03/16/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		84.6 %		50-200	2012010	03/16/20	03/16/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.2 %		50-150	2012001	03/16/20	03/17/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	375	20.0	mg/kg	1	2012011	03/16/20	03/16/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	04/30/20 10:03

0'-200' 5-pt comp  
P004133-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Chloride	598	20.0	mg/kg	1	2018008	04/28/20	04/28/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	04/30/20 10:03

200'-400' 5-pt comp  
P004133-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Chloride	507	20.0	mg/kg	1	2018008	04/28/20	04/28/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	04/30/20 10:03

600'-800' 5-pt comp  
P004133-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Anions by 300.0/9056A

Chloride	700	20.0	mg/kg	1	2018008	04/28/20	04/28/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	05/26/20 10:26

**600' - 800'**  
**P005066-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Chloride	<b>1040</b>	20.0	mg/kg	1	2021015	05/21/20	05/21/20	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/28/20 11:19

600'-800'  
P007055-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2030025
Chloride	1160	40.0	2	07/23/20	07/23/20	

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Sample Data

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: NEBU Trunk B #2 Project Number: 03143-0424 Project Manager: Steve Moskal	Reported: 10/13/2020 4:51:11PM
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600'-800'(#5)

E010025-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2041029
Chloride	347	20.0	1	10/08/20	10/09/20	



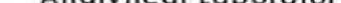
# LAB CHAIN-OF- CUSTODY RECORDS






Client: <u>BPX ENERGY</u>					Report Attention					Lab Use Only							TAT		EPA Program						
Project: <u>NEBU TRUNK B</u>					Report due by: <u>STANDARD</u>					Lab WO# <u>P003050</u>				Job Number <u>03143-0424</u>			1D	3D	RCRA	CWA	SDWA				
Project Manager: <u>Steve Maskal</u>					Attention: <u>Steve Maskal / Jeff Blagg</u>					Analysis and Method										State					
Address:					Address:					DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	6010 Total P						NM	CO	UT	AZ
City, State, Zip					City, State, Zip																	TX	OK		
Phone:					Phone:															Remarks					
Email:					Email:																				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																				
1153	3/9/2020	SOIL	1	200' - 400' 5-POINT COMP.	1																				
1201			1	400' - 600' 4-POINT COMP.	2																				
1206			1	600' - 800' 4-POINT COMP.	3																				
1214			1	800' - 1,000' 4-POINT COMP.	4																				
1216			1	1,000' - 1,100' 2-POINT COMP.	5																				
1228			1	BACKGROUND GRAB	6																				
Additional Instructions: <u>BILL BPX</u>																									
<u>USE P.O. FOR 1H2020 SPILLS</u>																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Jeff Blagg</u>												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only													
<u>Jeff Blagg</u>		<u>3/9/2020</u>		<u>1508</u>		<u>Rein Lopez</u>		<u>3/9/20</u>		<u>15:08</u>		Received on ice: <u>Y</u> / N													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																									




 5795 US Highway 64, Farmington, NM 87401      Ph (505) 632-1881 Fx (505) 632-1885      [envirotech-inc.com](http://envirotech-inc.com)  
 24 Hour Emergency Response Phone (800) 362-1879      [labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

## Chain of Custody



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 24 Hour Emergency Response Phone (800) 362-1879      [labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)





**envirotech**  
Analytical Laboratory

## Chain of Custody


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 24 Hour Emergency Response Phone (800) 362-1879      [labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)





# CLOSURE PHOTOS





**NEBU Trunk B #2  
Photographic Log  
Simcoe, LLC**



Photo 1: NEBU Trunk B #2 600 ft marker. Shallow bedrock present across the site, 7/22/2020.



Photo 2: NEBU Trunk B #2 bedrock present across site, 7/22/2020.











Sample point 4 of 5  
10/07/2020



**SIMCOE/BP - NEBU Trunk B 002**





# LABORATORY QUALITY CONTROL / QUALITY ASSURANCE



## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 3/9/2020

Job Number: 03143-0424

Work Order: P003041

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 3/16/20

Walter Hinchman, Laboratory Director



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.  
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: NEBU Trunk B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
03/16/20 15:38

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Pooled Water Grab	P003041-01A	Aqueous	03/09/20	03/09/20	Poly 500mL
	P003041-01B	Aqueous	03/09/20	03/09/20	VOA Vial, 40mL; HCl
	P003041-01C	Aqueous	03/09/20	03/09/20	VOA Vial, 40mL; HCl
Terminus Soil Grab	P003041-02A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
0'-200' 5-Point Comp.	P003041-03A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/16/20 15:38
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

**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 2011005 - Purge and Trap EPA 5030A****Blank (2011005-BLK1)**

Prepared: 03/09/20 1 Analyzed: 03/09/20 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			

**LCS (2011005-BS1)**

Prepared: 03/09/20 1 Analyzed: 03/09/20 2

Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.18	0.0250	"	5.00		104	70-130			
Total Xylenes	15.4	0.0250	"	15.0		103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.57		"	8.00		107	50-150			

**Matrix Spike (2011005-MS1)**

Source: P003036-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Benzene	4.90	0.0250	mg/kg	5.00	ND	98.0	54.3-133			
Toluene	4.99	0.0250	"	5.00	ND	99.9	61.4-130			
Ethylbenzene	5.02	0.0250	"	5.00	ND	100	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	0.0526	99.8	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	0.0526	100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.61		"	8.00		108	50-150			

**Matrix Spike Dup (2011005-MSD1)**

Source: P003036-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Benzene	4.89	0.0250	mg/kg	5.00	ND	97.8	54.3-133	0.193	20	
Toluene	4.95	0.0250	"	5.00	ND	99.0	61.4-130	0.905	20	
Ethylbenzene	4.98	0.0250	"	5.00	ND	99.5	61.4-133	0.878	20	
p,m-Xylene	9.94	0.0500	"	10.0	0.0526	98.9	63.3-131	0.850	20	
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131	0.238	20	
Total Xylenes	15.0	0.0250	"	15.0	0.0526	99.6	0-200	0.645	200	
Surrogate: 4-Bromochlorobenzene-PID	8.57		"	8.00		107	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

## Volatile Organics by EPA 8021 - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 2011007 - Purge and Trap EPA 5030A

## Blank (2011007-BLK1)

Prepared &amp; Analyzed: 03/09/20 1

Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
p,m-Xylene	ND	2.00	"							
o-Xylene	ND	1.00	"							
Total Xylenes	ND	1.00	"							
Surrogate: 4-Bromochlorobenzene-PID	166		"	160		104	50-150			

## LCS (2011007-BS1)

Prepared &amp; Analyzed: 03/09/20 1

Benzene	92.1	1.00	ug/L	100		92.1	70-130			
Toluene	94.2	1.00	"	100		94.2	70-130			
Ethylbenzene	94.4	1.00	"	100		94.4	70-130			
p,m-Xylene	189	2.00	"	200		94.6	70-130			
o-Xylene	95.5	1.00	"	100		95.5	70-130			
Total Xylenes	285	1.00	"	300		94.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	169		"	160		106	50-150			

## Matrix Spike (2011007-MS1)

Source: P003019-01

Prepared &amp; Analyzed: 03/09/20 1

Benzene	4610	50.0	ug/L	5000	ND	92.3	54.3-133			
Toluene	4720	50.0	"	5000	ND	94.4	61.4-130			
Ethylbenzene	4750	50.0	"	5000	ND	94.9	61.4-133			
p,m-Xylene	9660	100	"	10000	244	94.2	63.3-131			
o-Xylene	4910	50.0	"	5000	134	95.4	63.3-131			
Total Xylenes	14600	50.0	"	15000	378	94.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8680		"	8000		108	50-150			

## Matrix Spike Dup (2011007-MSD1)

Source: P003019-01

Prepared &amp; Analyzed: 03/09/20 1

Benzene	4700	50.0	ug/L	5000	ND	94.0	54.3-133	1.87	20	
Toluene	4790	50.0	"	5000	ND	95.8	61.4-130	1.42	20	
Ethylbenzene	4810	50.0	"	5000	ND	96.2	61.4-133	1.29	20	
p,m-Xylene	9770	100	"	10000	244	95.2	63.3-131	1.09	20	
o-Xylene	4960	50.0	"	5000	134	96.5	63.3-131	1.12	20	
Total Xylenes	14700	50.0	"	15000	378	95.7	0-200	1.10	200	
Surrogate: 4-Bromochlorobenzene-PID	8550		"	8000		107	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

## Nonhalogenated Organics by 8015 - DRO/ORO - 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 2011008 - DRO Extraction EPA 3570

## Blank (2011008-BLK1)

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.1		"	50.0		90.3	50-200			

## LCS (2011008-BS1)

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Diesel Range Organics (C10-C28)	419	25.0	mg/kg	500		83.7	38-132			
Surrogate: n-Nonane	45.4		"	50.0		90.9	50-200			

## Matrix Spike (2011008-MS1)

Source: P003034-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	47.6		"	50.0		95.2	50-200			

## Matrix Spike Dup (2011008-MSD1)

Source: P003034-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Diesel Range Organics (C10-C28)	513	25.0	mg/kg	500	ND	103	38-132	1.74	20	
Surrogate: n-Nonane	49.3		"	50.0		98.7	50-200			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

## Nonhalogenated Organics by 8015 - DRO/ORO - 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 2011009 - DRO/ORO Aqueous Extn 3511

## Blank (2011009-BLK1)

Prepared: 03/09/20 1 Analyzed: 03/10/20 1

Diesel Range Organics (C10-C28)	ND	1.00	mg/L							
Oil Range Organics (C28-C40)	ND	2.00	"							
Surrogate: n-Nonane	1.73		"	2.50		69.1	50-200			

## LCS (2011009-BS1)

Prepared: 03/09/20 1 Analyzed: 03/10/20 1

Diesel Range Organics (C10-C28)	5.35	1.00	mg/L	12.5		42.8	36-132			
Surrogate: n-Nonane	1.84		"	2.50		73.8	50-200			

## LCS Dup (2011009-BSD1)

Prepared: 03/09/20 1 Analyzed: 03/10/20 1

Diesel Range Organics (C10-C28)	8.40	1.00	mg/L	12.5		67.2	36-132	44.3	20	R3
Surrogate: n-Nonane	2.22		"	2.50		89.0	50-200			

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/16/20 15:38
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

## Nonhalogenated Organics by 8015 - GRO - 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 2011005 - Purge and Trap EPA 5030A

## Blank (2011005-BLK1)

Prepared: 03/09/20 1 Analyzed: 03/09/20 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

## LCS (2011005-BS2)

Prepared: 03/09/20 1 Analyzed: 03/09/20 2

Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	50-150			

## Matrix Spike (2011005-MS2)

Source: P003036-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.2	50-150			

## Matrix Spike Dup (2011005-MSD2)

Source: P003036-01

Prepared: 03/09/20 1 Analyzed: 03/10/20 0

Gasoline Range Organics (C6-C10)	50.0	20.0	mg/kg	50.0	ND	100	70-130	2.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/16/20 15:38
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

## Nonhalogenated Organics by 8015 - GRO - 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 2011007 - Purge and Trap EPA 5030A

## Blank (2011007-BLK1)

Prepared &amp; Analyzed: 03/09/20 1

Gasoline Range Organics (C6-C10)	ND	0.100	mg/L							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.152		"	0.160		95.1	50-150			

## LCS (2011007-BS2)

Prepared &amp; Analyzed: 03/09/20 1

Gasoline Range Organics (C6-C10)	0.922	0.100	mg/L	1.00		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.156		"	0.160		97.7	50-150			

## Matrix Spike (2011007-MS2)

Source: P003019-01

Prepared &amp; Analyzed: 03/09/20 2

Gasoline Range Organics (C6-C10)	47.9	5.00	mg/L	50.0	ND	95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		"	8.00		95.4	50-150			

## Matrix Spike Dup (2011007-MSD2)

Source: P003019-01

Prepared &amp; Analyzed: 03/09/20 2

Gasoline Range Organics (C6-C10)	47.7	5.00	mg/L	50.0	ND	95.4	70-130	0.293	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		"	8.00		95.7	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

**Dissolved Metals by 6010 - 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 2011013 - Metals Water Hotblock Digestion EPA 3010A/200.2****Blank (2011013-BLK1)**

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Calcium	ND	1.00	mg/L							
Iron	ND	2.00	"							
Magnesium	ND	1.00	"							
Potassium	ND	1.00	"							
Sodium	ND	2.00	"							

**LCS (2011013-BS1)**

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Calcium	46.0	1.00	mg/L	50.0		92.0	80-120			
Iron	92.7	2.00	"	100		92.7	80-120			
Magnesium	48.1	1.00	"	50.0		96.2	80-120			
Potassium	5.04	1.00	"	5.00		101	80-120			
Sodium	18.0	2.00	"	20.0		90.0	80-120			

**Matrix Spike (2011013-MS1)**

Source: P003041-01

Prepared: 03/10/20 0 Analyzed: 03/11/20 1

Calcium	86.7	2.00	mg/L	50.0	36.5	100	75-125			
Iron	97.8	4.00	"	100	ND	97.8	75-125			
Magnesium	80.5	2.00	"	50.0	31.8	97.5	75-125			
Potassium	42.1	2.00	"	5.00	41.0	22.0	75-125			M2
Sodium	4790	100	"	20.0	4860	NR	75-125			M4

**Matrix Spike Dup (2011013-MSD1)**

Source: P003041-01

Prepared: 03/10/20 0 Analyzed: 03/11/20 1

Calcium	90.0	2.00	mg/L	50.0	36.5	107	75-125	3.76	20	
Iron	104	4.00	"	100	ND	104	75-125	5.72	20	
Magnesium	82.5	2.00	"	50.0	31.8	102	75-125	2.50	20	
Potassium	40.3	2.00	"	5.00	41.0	NR	75-125	4.56	20	M2
Sodium	5030	100	"	20.0	4860	848	75-125	4.93	20	M4

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

## Anions by 300.0/9056A - 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 2011012 - Anion Extraction EPA 300.0/9056A

## Blank (2011012-BLK1)

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Chloride ND 20.0 mg/kg

## LCS (2011012-BS1)

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Chloride 253 20.0 mg/kg 250 101 90-110

## Matrix Spike (2011012-MS1)

Source: P003038-01

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Chloride 981 40.0 mg/kg 250 716 106 80-120

## Matrix Spike Dup (2011012-MSD1)

Source: P003038-01

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Chloride 985 40.0 mg/kg 250 716 108 80-120 0.435 20

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/16/20 15:38
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

**Anions by 300.0/9056A - 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 2011015 - Anion Extraction EPA 300.0/9056A****Blank (2011015-BLK1)**

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Fluoride	ND	0.250	mg/L
Chloride	ND	2.00	"
Nitrite-N	ND	0.250	"
Nitrate-N	ND	0.250	"
o-Phosphate-P	ND	0.250	"
Sulfate	ND	2.00	"

**LCS (2011015-BS1)**

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Fluoride	2.56	0.250	mg/L	2.50	103	90-110
Chloride	25.1	2.00	"	25.0	100	90-110
Nitrite-N	2.49	0.250	"	2.50	99.6	90-110
Nitrate-N	2.64	0.250	"	2.50	106	90-110
o-Phosphate-P	12.5	0.250	"	12.5	100	90-110
Sulfate	25.0	2.00	"	25.0	100	90-110

**Matrix Spike (2011015-MS1)**

Source: P003044-01

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Fluoride	2.98	0.250	mg/L	2.50	0.360	105	80-120
Chloride	44.8	2.00	"	25.0	20.5	97.2	80-120
Nitrite-N	2.42	0.250	"	2.50	ND	96.7	80-120
Nitrate-N	2.85	0.250	"	2.50	ND	114	80-120
o-Phosphate-P	14.0	0.250	"	12.5	2.27	93.9	80-120
Sulfate	118	2.00	"	25.0	96.6	84.8	80-120

**Matrix Spike Dup (2011015-MSD1)**

Source: P003044-01

Prepared: 03/10/20 0 Analyzed: 03/10/20 1

Fluoride	2.97	0.250	mg/L	2.50	0.360	104	80-120	0.135	20
Chloride	44.7	2.00	"	25.0	20.5	96.9	80-120	0.165	20
Nitrite-N	2.40	0.250	"	2.50	ND	95.9	80-120	0.831	20
Nitrate-N	2.85	0.250	"	2.50	ND	114	80-120	0.316	20
o-Phosphate-P	14.0	0.250	"	12.5	2.27	94.2	80-120	0.285	20
Sulfate	118	2.00	"	25.0	96.6	84.9	80-120	0.00679	20

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

**Cation/Anion 10:1 Leach Procedure - 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 2011046 - Metals Water Hotblock Digestion EPA 3010A/200.2****Blank (2011046-BLK1)**

Prepared &amp; Analyzed: 03/13/20 1

Calcium	ND	1.00	mg/L
Magnesium	ND	1.00	"
Sodium	ND	2.00	"

**LCS (2011046-BS1)**

Prepared &amp; Analyzed: 03/13/20 1

Calcium	48.2	1.00	mg/L	50.0		96.4	80-120
Magnesium	48.3	1.00	"	50.0		96.5	80-120
Sodium	16.8	2.00	"	20.0		83.9	80-120

**Matrix Spike (2011046-MS1)**

Source: P003041-03

Prepared &amp; Analyzed: 03/13/20 1

Calcium	50.4	1.00	mg/L	50.0	3.71	93.4	75-125
Magnesium	48.3	1.00	"	50.0	ND	96.6	75-125
Sodium	17.0	2.00	"	20.0	ND	85.2	75-125

**Matrix Spike Dup (2011046-MSD1)**

Source: P003041-03

Prepared &amp; Analyzed: 03/13/20 1

Calcium	53.6	1.00	mg/L	50.0	3.71	99.8	75-125	6.15	20
Magnesium	51.4	1.00	"	50.0	ND	103	75-125	6.28	20
Sodium	17.8	2.00	"	20.0	ND	88.8	75-125	4.20	20

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

### Wet Chemistry - 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 2012003 - Wet Chemistry Preparation

#### LCS (2012003-BS1)

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

pH	7.98	pH Units	8.00	99.8	98.75-101.25
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#### Duplicate (2012003-DUP1)

Source: P003041-02

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

pH	9.32	pH Units	9.31	0.107	20
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#### QC Summary Report

##### Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 15:38

### Notes and Definitions

R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 3/9/2020

Job Number: 03143-0424

Work Order: P003050

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 3/16/20

Walter Hinchman, Laboratory Director



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.  
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: NEBU Trunk B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
03/16/20 16:07

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
200'-400' 5-Point Comp.	P003050-01A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
400'-600' 4-Point Comp.	P003050-02A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
600'-800' 4-Point Comp.	P003050-03A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
800'-1000' 4-Point Comp.	P003050-04A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
1000'-1100' 2-Point Comp.	P003050-05A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.
Background Grab	P003050-06A	Soil	03/09/20	03/09/20	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	NEBU Trunk B	Reported: 03/16/20 16:07
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

## 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 2011019 - Purge and Trap EPA 5030A

## Blank (2011019-BLK1)

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.47		"	8.00		106	50-150			

## LCS (2011019-BS1)

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Benzene	4.63	0.0250	mg/kg	5.00		92.5	70-130			
Toluene	4.86	0.0250	"	5.00		97.1	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.98	0.0250	"	5.00		99.5	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.8	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.60		"	8.00		107	50-150			

## Matrix Spike (2011019-MS1)

Source: P003049-01

Prepared: 03/11/20 0 Analyzed: 03/11/20 2

Benzene	4.47	0.0250	mg/kg	5.00	ND	89.4	54.3-133			
Toluene	4.70	0.0250	"	5.00	ND	94.1	61.4-130			
Ethylbenzene	4.79	0.0250	"	5.00	ND	95.8	61.4-133			
p,m-Xylene	9.55	0.0500	"	10.0	ND	95.5	63.3-131			
o-Xylene	4.83	0.0250	"	5.00	ND	96.6	63.3-131			
Total Xylenes	14.4	0.0250	"	15.0	ND	95.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.73		"	8.00		109	50-150			

## Matrix Spike Dup (2011019-MSD1)

Source: P003049-01

Prepared: 03/11/20 0 Analyzed: 03/11/20 2

Benzene	4.49	0.0250	mg/kg	5.00	ND	89.8	54.3-133	0.446	20	
Toluene	4.74	0.0250	"	5.00	ND	94.8	61.4-130	0.723	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	96.9	61.4-133	1.12	20	
p,m-Xylene	9.66	0.0500	"	10.0	ND	96.6	63.3-131	1.14	20	
o-Xylene	4.90	0.0250	"	5.00	ND	98.0	63.3-131	1.44	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.1	0-200	1.24	200	
Surrogate: 4-Bromochlorobenzene-PID	8.88		"	8.00		111	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

## Nonhalogenated Organics by 8015 - DRO/ORO - 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 2011036 - DRO Extraction EPA 3570

## Blank (2011036-BLK1)

Prepared: 03/12/20 0 Analyzed: 03/12/20 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.0		"	50.0		100	50-200			

## LCS (2011036-BS1)

Prepared: 03/12/20 0 Analyzed: 03/12/20 2

Diesel Range Organics (C10-C28)	404	25.0	mg/kg	500		80.8	38-132			
Surrogate: n-Nonane	44.6		"	50.0		89.3	50-200			

## Matrix Spike (2011036-MS1)

Source: P003045-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 2

Diesel Range Organics (C10-C28)	425	25.0	mg/kg	500	ND	85.0	38-132			
Surrogate: n-Nonane	45.6		"	50.0		91.2	50-200			

## Matrix Spike Dup (2011036-MSD1)

Source: P003045-01

Prepared: 03/12/20 0 Analyzed: 03/12/20 2

Diesel Range Organics (C10-C28)	421	25.0	mg/kg	500	ND	84.2	38-132	0.974	20	
Surrogate: n-Nonane	45.7		"	50.0		91.3	50-200			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

## Nonhalogenated Organics by 8015 - GRO - 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 2011019 - Purge and Trap EPA 5030A

## Blank (2011019-BLK1)

Prepared: 03/11/20 0 Analyzed: 03/11/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		"	8.00		94.2	50-150			

## LCS (2011019-BS2)

Prepared: 03/11/20 0 Analyzed: 03/11/20 2

Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		"	8.00		94.4	50-150			

## Matrix Spike (2011019-MS2)

Source: P003049-01

Prepared: 03/11/20 0 Analyzed: 03/11/20 2

Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		"	8.00		93.5	50-150			

## Matrix Spike Dup (2011019-MSD2)

Source: P003049-01

Prepared: 03/11/20 0 Analyzed: 03/11/20 2

Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.8	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		"	8.00		91.2	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

## Anions by 300.0/9056A - 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 2011042 - Anion Extraction EPA 300.0/9056A

## Blank (2011042-BLK1)

Prepared: 03/13/20 0 Analyzed: 03/13/20 1

Chloride ND 20.0 mg/kg

## LCS (2011042-BS1)

Prepared: 03/13/20 0 Analyzed: 03/13/20 1

Chloride 253 20.0 mg/kg 250 101 90-110

## Matrix Spike (2011042-MS1)

Source: P003050-01

Prepared: 03/13/20 0 Analyzed: 03/13/20 1

Chloride 1420 100 mg/kg 250 1380 15.0 80-120 M2

## Matrix Spike Dup (2011042-MSD1)

Source: P003050-01

Prepared: 03/13/20 0 Analyzed: 03/13/20 1

Chloride 1640 100 mg/kg 250 1380 103 80-120 14.5 20

## QC Summary Report

## Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/16/20 16:07

Notes and Definitions

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- \*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 3/16/2020

Job Number: 03142-0424

Work Order: P003086

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 3/18/20

Walter Hinchman, Laboratory Director



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.  
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: NEBU Trunk B  
Project Number: 03142-0424  
Project Manager: Steve Moskal

**Reported:**  
03/18/20 08:11

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Terminus Re-Sample	P003086-01A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
Excavation West Wall	P003086-02A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
Excavation East Wall	P003086-03A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
Excavation Base	P003086-04A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
Right-of-Way, South	P003086-05A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.
Right-of-Way, North	P003086-06A	Soil	03/16/20	03/16/20	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

## 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 2012001 - Purge and Trap EPA 5030A

## Blank (2012001-BLK1)

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.93		"	8.00		99.2	50-150			

## LCS (2012001-BS1)

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Benzene	5.10	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.23	0.0250	"	5.00		105	70-130			
Ethylbenzene	5.16	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	"	10.0		103	70-130			
o-Xylene	5.12	0.0250	"	5.00		102	70-130			
Total Xylenes	15.4	0.0250	"	15.0		103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.02		"	8.00		100	50-150			

## Matrix Spike (2012001-MS1)

Source: P003087-05

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133			
Toluene	5.15	0.0250	"	5.00	ND	103	61.4-130			
Ethylbenzene	5.08	0.0250	"	5.00	ND	102	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	4.99	0.0250	"	5.00	ND	99.8	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	ND	100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			

## Matrix Spike Dup (2012001-MSD1)

Source: P003087-05

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Benzene	5.02	0.0250	mg/kg	5.00	ND	100	54.3-133	0.0678	20	
Toluene	5.14	0.0250	"	5.00	ND	103	61.4-130	0.229	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	0.0552	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	0.0650	20	
o-Xylene	5.02	0.0250	"	5.00	ND	100	63.3-131	0.535	20	
Total Xylenes	15.1	0.0250	"	15.0	ND	101	0-200	0.134	200	
Surrogate: 4-Bromochlorobenzene-PID	8.15		"	8.00		102	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

## Nonhalogenated Organics by 8015 - DRO/ORO - 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 2012010 - DRO Extraction EPA 3570

## Blank (2012010-BLK1)

Prepared &amp; Analyzed: 03/16/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	44.0		"	50.0		87.9	50-200			

## LCS (2012010-BS1)

Prepared &amp; Analyzed: 03/16/20 1

Diesel Range Organics (C10-C28)	399	25.0	mg/kg	500		79.8	38-132			
Surrogate: n-Nonane	46.0		"	50.0		92.1	50-200			

## Matrix Spike (2012010-MS1)

Source: P003086-01

Prepared &amp; Analyzed: 03/16/20 1

Diesel Range Organics (C10-C28)	417	25.0	mg/kg	500	ND	83.4	38-132			
Surrogate: n-Nonane	46.0		"	50.0		91.9	50-200			

## Matrix Spike Dup (2012010-MSD1)

Source: P003086-01

Prepared &amp; Analyzed: 03/16/20 1

Diesel Range Organics (C10-C28)	414	25.0	mg/kg	500	ND	82.8	38-132	0.632	20	
Surrogate: n-Nonane	45.6		"	50.0		91.2	50-200			

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 03/18/20 08:11
PO Box 22024	Project Number:	03142-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

## Nonhalogenated Organics by 8015 - GRO - 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 2012001 - Purge and Trap EPA 5030A

## Blank (2012001-BLK1)

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		"	8.00		86.1	50-150			

## LCS (2012001-BS2)

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0		98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		"	8.00		86.0	50-150			

## Matrix Spike (2012001-MS2)

Source: P003087-05

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Gasoline Range Organics (C6-C10)	50.2	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		"	8.00		88.9	50-150			

## Matrix Spike Dup (2012001-MSD2)

Source: P003087-05

Prepared: 03/16/20 0 Analyzed: 03/16/20 1

Gasoline Range Organics (C6-C10)	49.6	20.0	mg/kg	50.0	ND	99.3	70-130	1.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		"	8.00		87.1	50-150			

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

## Anions by 300.0/9056A - 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 2012011 - Anion Extraction EPA 300.0/9056A

## Blank (2012011-BLK1)

Prepared &amp; Analyzed: 03/16/20 1

Chloride ND 20.0 mg/kg

## LCS (2012011-BS1)

Prepared &amp; Analyzed: 03/16/20 1

Chloride 249 20.0 mg/kg 250 99.7 90-110

## Matrix Spike (2012011-MS1)

Source: P003086-01

Prepared &amp; Analyzed: 03/16/20 1

Chloride 248 20.0 mg/kg 250 ND 99.3 80-120

## Matrix Spike Dup (2012011-MSD1)

Source: P003086-01

Prepared &amp; Analyzed: 03/16/20 1

Chloride 248 20.0 mg/kg 250 ND 99.4 80-120 0.0201 20

## QC Summary Report

## Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03142-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/18/20 08:11

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 4/23/2020

Job Number: 03143-0424

Work Order: P004133

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 4/30/20

Walter Hinchman, Laboratory Director



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Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.  
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





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

Project Name: NEBU Trunk B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
04/30/20 10:03

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
0'-200' 5-pt comp	P004133-01A	Soil	04/23/20	04/23/20	Glass Jar, 4 oz.
200'-400' 5-pt comp	P004133-02A	Soil	04/23/20	04/23/20	Glass Jar, 4 oz.
600'-800' 5-pt comp	P004133-03A	Soil	04/23/20	04/23/20	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	04/30/20 10:03

**Anions by 300.0/9056A - 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 2018008 - Anion Extraction EPA 300.0/9056A****Blank (2018008-BLK1)**

Prepared: 04/28/20 0 Analyzed: 04/28/20 1

Chloride ND 20.0 mg/kg

**LCS (2018008-BS1)**

Prepared: 04/28/20 0 Analyzed: 04/28/20 1

Chloride 247 20.0 mg/kg 250 98.8 90-110

**Matrix Spike (2018008-MS1)****Source: P004115-01**

Prepared: 04/28/20 0 Analyzed: 04/28/20 1

Chloride 249 20.0 mg/kg 250 ND 99.5 80-120

**Matrix Spike Dup (2018008-MSD1)****Source: P004115-01**

Prepared: 04/28/20 0 Analyzed: 04/28/20 1

Chloride 249 20.0 mg/kg 250 ND 99.4 80-120 0.0643 20

**QC Summary Report****Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	04/30/20 10:03

Notes and Definitions

- ND      Analyte NOT DETECTED at or above the reporting limit
  - NR      Not Reported
  - RPD      Relative Percent Difference
  - \*\*      Methods marked with \*\* are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 5/20/2020

Job Number: 03143-0424

Work Order: P005066

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/26/20

Walter Hinchman, Laboratory Director



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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: NEBU Trunk B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
05/26/20 10:26

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
600' - 800'	P005066-01A	Soil	05/20/20	05/20/20	Glass Jar, 4 oz.

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5796 Highway 64, Farmington, NM 87401

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

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com

Labadmin@envirotech-inc.com





BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	05/26/20 10:26

## Anions by 300.0/9056A - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch 2021015 - Anion Extraction EPA 300.0/9056A

## Blank (2021015-BLK1)

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Chloride	ND	20.0	mg/kg							
----------	----	------	-------	--	--	--	--	--	--	--

## LCS (2021015-BS1)

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Chloride	252	20.0	mg/kg	250		101	90-110			
----------	-----	------	-------	-----	--	-----	--------	--	--	--

## Matrix Spike (2021015-MS1)

Source: P005057-01

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Chloride	3080	40.0	mg/kg	250	2850	92.1	80-120			
----------	------	------	-------	-----	------	------	--------	--	--	--

## Matrix Spike Dup (2021015-MSD1)

Source: P005057-01

Prepared: 05/20/20 0 Analyzed: 05/20/20 1

Chloride	3150	40.0	mg/kg	250	2850	122	80-120	2.42	20	M1
----------	------	------	-------	-----	------	-----	--------	------	----	----

## QC Summary Report

## Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	<b>Reported:</b> 05/26/20 10:26
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

### Notes and Definitions

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Analytical Report

### Report Summary

Client: BP America Production Co.

Samples Received: 7/22/2020

Job Number: 03143-0424

Work Order: P007055

Project Name/Location: NEBU Trunk B

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 7/28/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/28/20 11:19

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
600'-800'	P007055-01A	Soil	07/22/20	07/22/20	Glass Jar, 4 oz.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/28/20 11:19

#### Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
<b>Blank (2030025-BLK1)</b>									
Chloride	ND	20.0							Prepared: 07/23/20 0 Analyzed: 07/23/20 1
<b>LCS (2030025-BS1)</b>									
Chloride	250	20.0	250		100	90-110			Prepared: 07/23/20 0 Analyzed: 07/23/20 1
<b>Matrix Spike (2030025-MS1)</b>									
Chloride	259	20.0	250	ND	104	80-120			Source: P007058-01 Prepared: 07/23/20 0 Analyzed: 07/23/20 1
<b>Matrix Spike Dup (2030025-MSD1)</b>									
Chloride	258	20.0	250	ND	103	80-120	0.182	20	Source: P007058-01 Prepared: 07/23/20 0 Analyzed: 07/23/20 1

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	NEBU Trunk B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/28/20 11:19

Notes and Definitions

- ND      Analyte NOT DETECTED at or above the reporting limit
  - NR      Not Reported
  - RPD      Relative Percent Difference
  - \*\*      Methods marked with \*\* are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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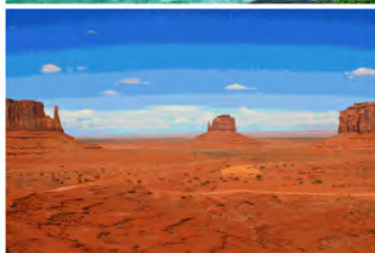


Report to:

Steve Moskal

PO Box 22024

Tulsa, OK 74121-2024



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
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## Analytical Report

BP America Production Co.

Project Name: NEBU Trunk B #2

Work Order: E010025

Job Number: 03143-0424

Received: 10/7/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/13/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 10/13/20

Steve Moskal  
PO Box 22024  
Tulsa, OK 74121-2024



Project Name: NEBU Trunk B #2  
Workorder: E010025  
Date Received: 10/7/2020 1:23:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2020 1:23:00PM, under the Project Name: NEBU Trunk B #2.

The analytical test results summarized in this report with the Project Name: NEBU Trunk B #2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Lopez**  
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**Alexa Michaels**  
Sample Custody Officer  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

BP America Production Co.	Project Name:	NEBU Trunk B #2	Reported:
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/13/20 16:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
600'-800'(#5)	E010025-01A	Soil	10/07/20	10/07/20	Glass Jar, 4 oz.



QC Summary Data

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: NEBU Trunk B #2 Project Number: 03143-0424 Project Manager: Steve Moskal	Reported:  10/13/2020 4:51:11PM
-------------------------------------------------------------------	----------------------------------------------------------------------------------------------	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

<b>Blank (2041029-BLK1)</b>					Prepared: 10/08/20 Analyzed: 10/08/20				
Chloride	ND	20.0							
<b>LCS (2041029-BS1)</b>					Prepared: 10/08/20 Analyzed: 10/08/20				
Chloride	251	20.0	250		100	90-110			
<b>Matrix Spike (2041029-MS1)</b>					<b>Source: E010032-01</b> Prepared: 10/08/20 Analyzed: 10/08/20				
Chloride	242	20.0	250	ND	96.8	80-120			
<b>Matrix Spike Dup (2041029-MSD1)</b>					<b>Source: E010032-01</b> Prepared: 10/08/20 Analyzed: 10/08/20				
Chloride	241	20.0	250	ND	96.4	80-120	0.426	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

BP America Production Co.	Project Name:	NEBU Trunk B #2	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	10/13/20 16:51

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 10/7/2020 1:33:22PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	BP America Production Co.	Date Received:	10/07/20 13:23	Work Order ID:	E010025
Phone:	(800) 284-2244	Date Logged In:	10/07/20 13:28	Logged In By:	Alexa Michaels
Email:	steven.moskal@bpx.com	Due Date:	10/14/20 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email To: Steven.Moskal@bpx.com, Ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, nvelez@cottonwoodconsulting.com

Email To: Steven.Moskal@bpx.com,  
Ksiesser@cottonwoodconsulting.com,  
jharter@cottonwoodconsulting.com,  
nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 185329

CONDITIONS

Operator:  SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:  329736
	Action Number:  185329
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/20/2023