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**

Site Name: Elliott Gas Com B 001A  Date Release Discovered: February 17, 2020  API#: 30-045-22339  Unit Letter Section Township Range County  E 13 T29N R09W 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)  Crude Oil Volume Released (bbls)  Produced Water Volume Released (bbls):  Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (Mcf)  Other (describe)  Volume Released (provide units)  Volume Recovered (provide units)					•	·	
Contact email: steven.moskal@bpx.com    Incident # (assigned by OCD)   NRM2006939989	Responsible Party: BP America Production Co			О	GRID: 778	Final	
Location of Release Source   Longitude: -107.737032°   CNAD 83 m decimal degrees to 3 decimal places)   Site Name: Elliott Gas Com B 001A   Site Type: Natural Gas Production Well Pad   Date Release Discovered: February 17, 2020   API#: 30-045-22339	Contact Name: Steve Moskal			C	Contact Telephone: (505) 330-9179		
Location of Release Source  Latitude: 36.727375° Longitude: -107.737032°  (NAD 83 m decimal degrees to 5 decimal places)  Site Name: Elliott Gas Com B 001A Site Type: Natural Gas Production Well Pad  Date Release Discovered: February 17, 2020 API#: 30-045-22339  Unit Letter Section Township Range County  E 13 T29N R09W San Juan  Surface Owner: State Federal Tribal Private (Name:	Contact ema	Contact email: steven.moskal@bpx.com			In	icident # (assi	ssigned by OCD) NRM2006939989
Latitude: 36.727375°    Longitude: -107.737032°   (NAD 83 in decimal degrees to 5 decimal places)	Contact mai	ling address:	: 1199 Main St., S	uite 101, Durang	go CO, 8130	1	
Latitude: 36.727375°    Longitude: -107.737032°   (NAD 83 in decimal degrees to 5 decimal places)				Logation	n of Dolo	nasa Sam	Iraa
Site Name: Elliott Gas Com B 001A  Date Release Discovered: February 17, 2020  Unit Letter Section Township Range County  E 13 T29N R09W 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)  Crude Oil Volume Released (bbls)  Produced Water Volume Released (bbls): Volume Recovered (bbls):  Is the concentration of dissolved chloride in the produced water >10,000 mg/1?  Condensate Volume Released (Mcf)  Other (describe) Volume Released (provide units)  Volume Recovered (provide units)  Volume Recovered (provide units)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.				Locatio	n oi Keic	ease Soul	1100
Site Name: Elliott Gas Com B 001A  Date Release Discovered: February 17, 2020  API#: 30-045-22339    Unit Letter   Section   Township   Range   County   E   13   T29N   R09W   San Juan	Latitude: 36.7	<sup>2</sup> 27375°		(NAD 83 in			
Date Release Discovered: February 17, 2020  API#: 30-045-22339  Unit Letter   Section   Township   Range   County   E   13   T29N   R09W   San Juan  Surface Owner:   State   Federal   Tribal   Private (Name:				(NAD 63 III 6			
Unit Letter   Section   Township   Range   County   E   13   T29N   R09W   San Juan    Surface Owner:   State   Federal   Tribal   Private (Name:						• •	
E   13   T29N   R09W   San Juan    Surface Owner:   State   Federal   Tribal   Private (Name:	Date Release	Discovered	: February 17, 202	20	Al	PI#: 30-045-	5-22339
E   13   T29N   R09W   San Juan    Surface Owner:   State   Federal   Tribal   Private (Name:	Unit Letter	Section	Township	Range		County	
Nature and Volume of Release    Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)   Crude Oil   Volume Released (bbls)   Volume Recovered (bbls)   Produced Water   Volume Released (bbls):   Volume Recovered (bbls):     Is the concentration of dissolved chloride in the produced water >10,000 mg/l?     Condensate   Volume Released (bbls): 3.8   Volume Recovered (bbls): 0 bbls     Natural Gas   Volume Released (Mcf)   Volume Recovered (Mcf)     Other (describe)   Volume/Weight Released (provide units)   Volume/Weight Recovered (provide units)     Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.			•		San Juan		
Nature and Volume of Release    Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)   Crude Oil   Volume Released (bbls)   Volume Recovered (bbls)   Produced Water   Volume Released (bbls):   Volume Recovered (bbls):     Is the concentration of dissolved chloride in the produced water >10,000 mg/l?     Condensate   Volume Released (bbls): 3.8   Volume Recovered (bbls): 0 bbls     Natural Gas   Volume Released (Mcf)   Volume Recovered (Mcf)     Other (describe)   Volume/Weight Released (provide units)   Volume/Weight Recovered (provide units)     Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.							
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  □ Crude Oil Volume Released (bbls) Volume Recovered (bbls) □ Produced Water Volume Released (bbls): Volume Recovered (bbls): □ Is the concentration of dissolved chloride in the produced water >10,000 mg/l? □ Condensate Volume Released (bbls): 3.8 Volume Recovered (bbls): 0 bbls □ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) □ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Surface Owne	r: State	☐ Federal ☐ T	ribal 🗌 Private	(Name:		)
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  □ Crude Oil Volume Released (bbls) Volume Recovered (bbls) □ Produced Water Volume Released (bbls): Volume Recovered (bbls): □ Is the concentration of dissolved chloride in the produced water >10,000 mg/l? □ Condensate Volume Released (bbls): 3.8 Volume Recovered (bbls): 0 bbls □ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) □ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.				Nature ar	nd Volun	ne of Rel	elease
☐ Crude Oil       Volume Released (bbls)       Volume Recovered (bbls)         ☐ Produced Water       Volume Released (bbls):       Volume Recovered (bbls):         ☐ Is the concentration of dissolved chloride in the produced water >10,000 mg/l?       ☐ Yes ☐ No         ☐ Condensate       Volume Released (bbls): 3.8       Volume Recovered (bbls): 0 bbls         ☐ Natural Gas       Volume Released (Mcf)       Volume Recovered (Mcf)         ☐ Other (describe)       Volume/Weight Released (provide units)       Volume/Weight Recovered (provide units)         Cause of Release:       Release of condensate and produced water caused from a storage tank integrity failure.         BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.							
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (bbls): 3.8 Volume Recovered (bbls): 0 bbls  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Crude Oi				ich calculations		
produced water >10,000 mg/l?    Condensate   Volume Released (bbls): 3.8   Volume Recovered (bbls): 0 bbls     Natural Gas   Volume Released (Mcf)   Volume Recovered (Mcf)     Other (describe)   Volume/Weight Released (provide units)   Volume/Weight Recovered (provide units)     Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.    BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Produced	Water	Volume Releas	ed (bbls):		V	Volume Recovered (bbls):
Condensate					l chloride in	the	Yes No
Natural Gas  Volume Released (Mcf)  Other (describe)  Volume/Weight Released (provide units)  Volume/Weight Recovered (provide units)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Condensa	ate				V	Volume Recovered (bbls): 0 bbls
Other (describe)  Cause of Release: Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.						<u> </u>	
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Release of condensate and produced water caused from a storage tank integrity failure.  BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Since (describe) Volume Weight Refeased (provide units)		iac aiiiis)		rotaino, irotaino (provide anne)		
BP discovered a leaking condensate tank on 2/17/2020. Leak was contained to berm, tank was emptied and shut in. At this time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Cause of Rel	ease:	1				
time, the impacts appear to be confined to the tank footprint and will be further delineated via hollow stem auger during the week of 3/9/2020.	Release of co	ondensate an	nd produced water	caused from a st	torage tank ii	ntegrity failu	lure.
BP will proposed to install a soil vapor extraction system, however, due to the estimated size and extents discovered during soil	time, the im week of 3/9/	pacts appea 2020.	nr to be confined	to the tank foot	print and w	ill be furthe	er delineated via hollow stem auger during the

borings, a dig and haul was selected as the remediation method.

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ith (cell phone – Voicemail) on October 14, 2019 at 2:00 PM
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investiga	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have attered and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Topographic/Aerial maps

□ Laboratory data including chain of custody

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# **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	⊠ Yes □ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> </ul>				

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

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

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# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.			
□ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)				
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
Printed Name:	Title:			
Signature:	Date:			
email: Tele	ephone:			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

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# 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	ng items must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.2	29.11 NMAC
Photographs of the remediated site prior to backfill or pho must be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate C	DDC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file cermay endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name: Steve Moskal  Title:	: Environmental Coordinator
Signature: D	Date: <u>5/28/2020</u>
email: <u>steven.moskal@bpx.com</u>	Telephone: _(505) 330-9179
OCD Only	6/2/2020
Received by: OCD	Date: 6/2/2020
remediate contamination that poses a threat to groundwater, surfa party of compliance with any other federal, state, or local laws at	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date: 9/28/2020
Printed Name: Cory	Title: Environmental Specialist

# BP America Elliott GC B 1A

(E) Sec 13 – T29N – R9W San Juan County, New Mexico API: 30-045-22339

NMOCD Incident: NCS1928833906

#### Summary Record of Impact Remediation

<u>February 17, 2020</u> A release of approximately 3.8 barrels of condensate liquid was discovered at the 300 barrel stock tank. The leak was contained to the tank berm and did not travel off the wellpad. The tank was emptied and the well was shut-in.

The New Mexico Oil Conservation Division (NMOCD) site closure standard was determined at 1,000/2,500 ppm TPH and 20,000 ppm chlorides as documented within the approved C-141 submitted by BP on March 5, 2020.

March 13, 2020 Conduct boring investigation with track mounted drill rig to establish vertical and lateral extent of hydrocarbon impacts. Three borings were completed to depths between 25' - 30' below surface grade. Soil samples were collected for laboratory analysis of hydrocarbons and chlorides, with results as follows:

### Boring Sampling Test Results March 13, 2020

Boring ID	Sample Depth	Time	Field OVM (ppm)	BTEX (mg/Kg)	Benzene (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO +DRO) (mg/Kg)	TPH Total (mg/Kg)	Cl- (mg/Kg)
BH-1	5'	0918	4,788	<mark>4,570</mark>	<mark>28.7</mark>	34,700	2,180	ND	<mark>36,880</mark>	<mark>36,880</mark>	23.0
BH-1	25'	1002	721	1.53	ND	ND	ND	ND	ND	ND	ND
BH-1	30'	1016	6.7	ND	ND	ND	ND	ND	ND	ND	ND
BH-2	5'	1150	2,461	27.35	ND	326	975	ND	1,301	1,301	27.8
BH-2	25'	1306	82	0.185	ND	ND	ND	ND	ND	ND	ND
BH-3	5'	1413	3,669	221.21	1.21	1,840	2,170	219	<mark>4,010</mark>	4,229	ND
BH-3	25'	1454	24.3	ND	ND	ND	ND	ND	ND	ND	25.3
	·	·	Standard:	50	10				1,000	2,500	20,000

Boring logs, laboratory analytical data reports and photographs are attached.

<u>April 17, 2020</u> Conduct remediation using a backhoe to remove impacts. Excavate 12' x 10' x 10' deep. Soil type was a sandy silt. Conduct closure sampling on the sidewall and base, with results as follows:

# Closure Sampling Test Results April 17, 2020

Excavation Size: 12' x 10' x 10' Deep

Sample ID	Num. Comps	Time	Field OVM (ppm)	BTEX (mg/Kg)	Benzene (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO +DRO) (mg/Kg)	TPH Total (mg/Kg)	Cl- (mg/Kg)
Base @ 10'	5	1041	2,206	3.14	ND	50.3	83.0	ND	133.3	133.3	ND
N & E Sidewalls	8	1031	3,436	341.8	2.92	2,480	2,900	78.1	5,380	<mark>5,458</mark>	ND
S & W Sidewalls	8	1036	4,189	130.0	1.08	947	3,210	360	<mark>4,157</mark>	<mark>4,517</mark>	26.3
			Standard:	50	10				1,000	2,500	20,000

Site figure, laboratory analytical data reports and photographs are attached.

<u>April 21, 2020</u> Extend remedial excavation to 24' x 24' x 10' deep. Conduct closure sampling on the expanded excavation, with results as follows:

# Closure Sampling Test Results April 21, 2020

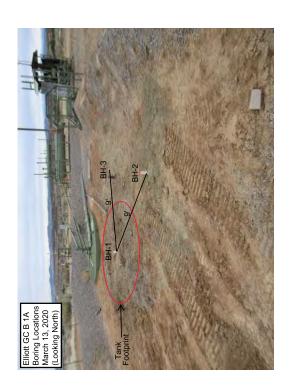
Excavation Size: 24' x 24' x 10' Deep

Sample ID	Num. Comps	Time	Field OVM (ppm)	BTEX mg/Kg	Benzene (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO +DRO) (mg/Kg)	TPH Total (mg/Kg)	Cl- (mg/Kg)
North Base @ 10'	7	1358	148	1.29	ND	ND	482	112	482	594	NA
South Base @ 10'	7	1340	86.4	ND	ND	ND	28.8	ND	28.8	28.8	NA
South Sidewall	5	1343	0.1	ND	ND	ND	ND	ND	ND	ND	NA
West Sidewall	5	1349	2.2	ND	ND	ND	46.8	ND	46.8	46.8	NA
North Sidewall	5	1401	12.8	ND	ND	ND	ND	ND	ND	ND	NA
East Sidewall	5	1404	3.4	ND	ND	ND	ND	ND	ND	ND	NA
			Standard:	50	10				1,000	2,500	20,000

Site figure, laboratory analytical data reports and photographs are attached.

April 22, 2020 Receive rush analytical data reports. All sampling areas within site closure standard. Backfill excavation with clean imported soils. The footprint of the excavation is covered with replacement tank and will be reclaimed at a later date.

Boring Investigation March 13, 2020



		INEERIN	IG, IN	C.		Boring ID: BH-1 Page: 1 of 1
Project I	oring Lo	ELLIOTT	GC	В	00	01A
Orilling E Date Star Total Dep	ontractor quipment t: 3/3/2 oth: 30	:CME	e Finish: g Type/	3/13 Size:_	2" P!	Driller: KP Logged by: JCB Slot Size: 0.010
Depth (Feet)	Sample Time		Field OVM	1 - 3	Well opletion	SAMPLE DESCRIPTION
1 2 3 4 5	0912	START		Ruek	wate	Redush TAN Fine SAN) Silt lite Moistine, Strong HC cale
6 7 8 9	०१।४	5.5.	4,783	ציוריט	Berg	Reddish TAU Fine SAM)  TPH = 36,880 mg/Kg + 5.17, lite MOIST P,  BTEX = 4,570 mg/Kg  CI = 23.0 mg/Kg
11 12 13 14 15	0926	\$ 5.	4,684	1111 11111		Record 24", SAA
16 17 18 19 20	0933	3 55	3,865	OIO SURFER	19/20 SAND	Recover 24", 15-16 SAA Litely 16-10 Cray Clays Muist, Struy HC Odo.
21 22 23 24 25	O(14Y	± 55	1,522	0.0	6	Recourt 16, Greenich Silt Stort, Dense, Dry. V Lite HC Ochs.
26 27 28 29 30	icci	<del>]</del>	721	O'es chappy		Recons (7", 54A TPH = ND BTEX = 2.60 CI- = ND
	1016	]55	6.7	×-		THE ND V V MINDE HE COLLY  CL-= ND

Client: Orilling C Orilling E	BPX ontractor quipment t: 3/3/2/ oth: 24	: HRL : CME- : CME- Casin	55 TR Finish: g Type/S	ACK 3/13/2020 ize: 2"  OF BH-1	Driller: <u>KP</u> Logged by: <u>JCB</u> PVC Slot Size: <u>の</u> .ひ(ひ
Depth (Feet)	Sample Time	Sample Type	Field OVM	Well Completion	SAMPLE DESCRIPTION
1 2 3 4	1140	37427		Rent!	silty saws, lite Moistere, minor HC odor.
5 6 7 8 9	<u> </u>	355	2,461	1054211	TPH (DRO+GRO) = 1,301 mg/Kg  BTEX = 27.35 mg/Kg  Benzene = ND  CI- = 27.8 mg/Kg
11 12 13 14 15	1205	3 45	7.7		RECOM ZH, SAA, Reduced OBOR.
16 17 18 19 20	1249	55	73.5	A BENTY	RECOVER 20", Gray Sitty clay, Litely Moist, V. MINUZ HC ODDR
21 22 23 24 25		3 85	177	) [ ]   J	RECORD 16, Greenish Silt Stone, Dry, Deuse V. Lite HC DOL.
26 27 28 29 30	1306	355	82	Ψ	Recover 12 , SAA TPH = ND BTEX = 0.185 mg/Kg CL- = ND

Field Bo Project II Client: Drilling Co Drilling Ed Date Star	D: Bloomtractor quipment t: 3/13/12/th: 25	ELLIOTT  EX  HRL  CME  Date  Casin	GC -55 7 e Finish:	B 001	Driller: ドア Logged by: ゴCB
Depth (Feet)	Sample Time	Sample Type	Field OVM	Well Completion	SAMPLE DESCRIPTION
1 2 3 4 5	1406	STACT		KISER SEATUMTE ()	Silty sand, tan, like HC ador
6 7 8 9	1420	55	3,669	3	Record 20' Reddish tay Fine SAND TPH = 4,229 mg/Kg + 51'lt lite Moisture BTEX = 232 mg/Kg Stury HC ado. T. No., Benzene = 1.21 mg/Kg CI-= ND
11 12 13 14 15		55	2,998	02/01 -	Recover 22 , SAA
16 17 18 19 20	1432 1432	<u>]</u> 55.	2,284	4 115 11111	RECOVE 24, GRAY Silty Clay, lite Moustale Moderate HC OBOR, No.
21 22 23 24 25	1454	] ] 43	584	Colling	ROCOVER 15, Green Siltstail, D.R.J., Paise, MINUR HC ODOLL
26 27 28 29 30		45	24.3		Recover 12, SAA, LITE HC OBOR TPH = ND BTEX = ND CI- = 25.3 mg/Kg



# **Analytical Report**

#### **Report Summary**

Client: BP America Production Co.

Samples Received: 3/13/2020 Job Number: 03143-0424 Work Order: P003081

Project Name/Location: Elliott GC B 001A

Report Reviewed By:	Waltet Homberson	Date:	3/19/20	
•				

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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. 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.

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



Project Name:

Elliott GC B 001A

Tulsa OK, 74121-2024

PO Box 22024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 03/19/20 12:13

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1 @ 5'	P003081-01A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-1 @ 25'	P003081-02A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-1 @ 30'	P003081-03A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-2 @ 5'	P003081-04A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-2 @ 25'	P003081-05A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-3 @ 5'	P003081-06A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.
BH-3 @ 25'	P003081-07A	Soil	03/13/20	03/13/20	Glass Jar, 4 oz.

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Tulsa OK, 74121-2024

PO Box 22024

Project Name:

Elliott GC B 001A

Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 03/19/20 12:13

BH-1 @ 5' P003081-01 (Solid)

		P0030	81-01 (Soli	.d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	28.7	2.50	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	791	2.50	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	320	2.50	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	2690	5.00	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	736	2.50	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	3430	2.50	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %	50-1	50	2012001	03/16/20	03/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	2180	25.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		1050 %	50-2	00	2012015	03/17/20	03/17/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GR	o								
Gasoline Range Organics (C6-C10)	34700	2000	mg/kg	100	2012001	03/16/20	03/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-1	50	2012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	23.0	20.0	mg/kg	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Steve Moskal

Reported: 03/19/20 12:13

BH-1 @ 25' P003081-02 (Solid)

r 003081-02 (S0Hu)											
		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	0.0697	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B			
Ethylbenzene	0.102	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B			
p,m-Xylene	1.07	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B			
o-Xylene	0.293	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B			
Total Xylenes	1.36	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-1	50	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	2012015	03/17/20	03/17/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D			
Surrogate: n-Nonane		87.3 %	50-2	200	2012015	03/17/20	03/17/20	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			
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	50-1	50	2012001	03/16/20	03/17/20	EPA 8015D			
Anions by 300.0/9056A											
Chloride	ND	20.0	mg/kg	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A			

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Project Name:

Elliott GC B 001A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager:

03143-0424 Steve Moskal **Reported:** 03/19/20 12:13

BH-1 @ 30' P003081-03 (Solid)

		1 0030	01-03 (301	iuj					
		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	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	150	2012001	03/16/20	03/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		84.3 %	50-2	200	2012015	03/17/20	03/17/20	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	50-	150	2012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 03/19/20 12:13

#### BH-2 @ 5' P003081-04 (Solid)

		P0030	81-04 (Solid)						
		Reporting							
Analyte	Result	Limit	Units D	ilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
Toluene	1.37	0.0250	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	1.78	0.0250	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	18.5	0.0500	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	5.65	0.0250	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	24.2	0.0250	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		131 %	50-150	2	012001	03/16/20	03/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	975	25.0	mg/kg 1	20	012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	20	012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		193 %	50-200	20	012015	03/17/20	03/17/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	)								
Gasoline Range Organics (C6-C10)	326	20.0	mg/kg 1	20	012001	03/16/20	03/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	2	012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	27.8	20.0	mg/kg 1	20	012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager:

03143-0424 Steve Moskal Reported:

03/19/20 12:13

#### BH-2 @ 25' P003081-05 (Solid)

		1 0030	01-03 (301	iuj					
		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	0.0360	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	0.117	0.0500	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	0.0321	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	0.149	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-1	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	2012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		87.6 %	50-2	200	2012015	03/17/20	03/17/20	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50-1	150	2012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Steve Moskal

Reported: 03/19/20 12:13

BH-3 @ 5' P003081-06 (Solid)

		1 0030	01-00 (50	nuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	1.21	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	38.0	1.25	mg/kg	50	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	13.0	0.0250	mg/kg	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	132	2.50	mg/kg	50	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	37.1	1.25	mg/kg	50	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	169	1.25	mg/kg	50	2012001	03/16/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-	150	2012001	03/16/20	03/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	2170	25.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	219	50.0	mg/kg	1	2012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		636 %	50-	200	2012015	03/17/20	03/17/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GRO	)								
Gasoline Range Organics (C6-C10)	1840	1000	mg/kg	50	2012001	03/16/20	03/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	50-	150	2012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 03/19/20 12:13

BH-3 @ 25' P003081-07 (Solid)

		F 0030	01-07 (SUIIC	1)					
		Reporting	·		·				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1	I	2012001	03/16/20	03/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	1	2012001	03/16/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	1	2012001	03/16/20	03/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	1	2012001	03/16/20	03/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	1	2012001	03/16/20	03/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	1	2012001	03/16/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-15	50	2012001	03/16/20	03/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1	2012015	03/17/20	03/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1	2012015	03/17/20	03/17/20	EPA 8015D	
Surrogate: n-Nonane		80.2 %	50-20	00	2012015	03/17/20	03/17/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	l	2012001	03/16/20	03/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	50-15	50	2012001	03/16/20	03/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	25.3	20.0	mg/kg 1	1	2012014	03/17/20	03/17/20	EPA 300.0/9056A	

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Project Name:

Elliott GC B 001A

PO Box 22024 Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Steve Moskal

Reported: 03/19/20 12:13

**Volatile Organics by EPA 8021 - Quality Control** 

**Envirotech Analytical Laboratory** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2012001 - Purge and Trap EPA 5030A										
Blank (2012001-BLK1)				Prepared: (	03/16/20 0 A	Analyzed: 0	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 A	Analyzed: 0	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)	Sour	ce: P003087-	05	Prepared: (	03/16/20 0 A	Analyzed: 0	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)	Sour	ce: P003087-	05	Prepared: (	03/16/20 0 A	Analyzed: 0	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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Project Name:

Elliott GC B 001A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 03/19/20 12:13

#### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2012015 - DRO Extraction EPA 3570										
Blank (2012015-BLK1)				Prepared &	Analyzed:	03/17/20 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	44.9		"	50.0		89.8	50-200			
LCS (2012015-BS1)				Prepared &	a Analyzed:	03/17/20 1				
Diesel Range Organics (C10-C28)	418	25.0	mg/kg	500		83.5	38-132			
Surrogate: n-Nonane	43.7		"	50.0		87.4	50-200			
<b>Matrix Spike (2012015-MS1)</b>	Sou	rce: P003081-	01	Prepared &	t Analyzed:	03/17/20 1				
Diesel Range Organics (C10-C28)	2540	25.0	mg/kg	500	2180	73.1	38-132			
Surrogate: n-Nonane	610		"	50.0		NR	50-200			S
Matrix Spike Dup (2012015-MSD1)	Sou	rce: P003081-	01	Prepared &	t Analyzed:	03/17/20 1				
Diesel Range Organics (C10-C28)	2680	25.0	mg/kg	500	2180	100	38-132	5.16	20	
Surrogate: n-Nonane	502		"	50.0		1000	50-200			S

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Surrogate: 1-Chloro-4-fluorobenzene-FID

Project Name:

Reporting

6.96

Elliott GC B 001A

Spike

8.00

Source

87.1

50-150

%REC

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 03/19/20 12:13

RPD

#### Nonhalogenated Organics by 8015 - GRO - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2012001 - Purge and Trap EPA 5030A										
Blank (2012001-BLK1)				Prepared: (	03/16/20 0 A	Analyzed: 0	3/16/20 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 A	Analyzed: 0	3/16/20 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	ee: P003087-	05	Prepared: (	03/16/20 0 A	Analyzed: 0	3/16/20 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	ee: P003087-	05	Prepared: (	03/16/20 0 A	Analyzed: 0	3/16/20 1			
Gasoline Range Organics (C6-C10)	49.6	20.0	mg/kg	50.0	ND	99.3	70-130	1.21	20	

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Project Name:

Reporting

Elliott GC B 001A

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 03/19/20 12:13

RPD

%REC

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

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2012014 - Anion Extraction EPA	300.0/9056A									
Blank (2012014-BLK1)				Prepared &	Analyzed:	03/17/20 1				
Chloride	ND	20.0	mg/kg							
LCS (2012014-BS1)				Prepared &	x Analyzed:	03/17/20 1				
Chloride	249	20.0	mg/kg	250		99.7	90-110			
Matrix Spike (2012014-MS1)	Source	e: P003081-	01	Prepared &	Analyzed:	03/17/20 1				
Chloride	275	20.0	mg/kg	250	23.0	101	80-120			
Matrix Spike Dup (2012014-MSD1)	Source	e: P003081-	01	Prepared &	Analyzed:	03/17/20 1				
Chloride	273	20.0	mg/kg	250	23.0	100	80-120	0.552	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 my differ slightly.

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BP America Production Co. Project Name: Elliott GC B 001A

PO Box 22024 Project Number: 03143-0424 Reported: Tulsa OK, 74121-2024 Project Manager: Steve Moskal 03/19/20 12:13

#### **Notes and Definitions**

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

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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of

Page

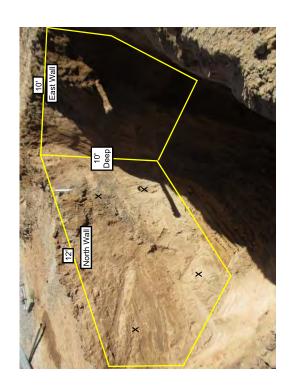
Project: Eulory Project Manager: Address: City, State, Zip	(CC 12	001A		Report due by: STANDARD		OW 4	7	5	Joh Mirmher	10 30	VaJa C	VIVI	SDIMA
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211 (212)				City, State, Zip				_				NM CO	CO UT AZ
Phone: Email:				Phone: Email:	10074		170					×× ××	
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1413		Ţ	BH-3 @ 5,		9								
1454	-	-1	BH-3 @ 25'		+								
Additional Instructions:	tions:	BLC BFX Project	BAX BCT P.O. to be created	Crected				- 4					
eld sampler), attest to the of collection is consider	e validity and a ed fraud and m	uthenticity of tl	I, (field sampler), attest to the validity and authenticity of this sample. I am aware that t time of collection is considered fraud and may be grounds for legal action. Sampled by:	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:	cation, date or L,			Samp	Samples requiring thermal preservation must be received on (ce the day they are sampled or received packed in ice at an avg. temp above 0 but less than 6°C on subsequent days.	eservation must l	be received on it but less than &C	ce the day they are sa	ampled or
Relinquished by: (Signature)	ıture)	Date 3/3/	Time ()	Received by: (Signature)	Date 3/3/2	Time	···	R	Received on ice.		Lab Use Only		
inquished by: (Sign:	ture)	Date	Time	Received by: (Signature)	Date	Time		É		+		Щ	
Relinquished by: (Signature)	ature)	Date	Time	Received by: (Signature)	Date	Time		¥ ¥	AVG Temp °C	J			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	- Solid, Sg - S	Sludge, A - Aq	ueous, O - Other		Container Tv	De: E -	glass, p -	J/vloa	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	ber glass. v	V-VOA		

24 Haur Emergency Response Phone (800) 362-1879 5796 US Highway 64, Famington, NM 37401 envirotech Analytical Laboratory

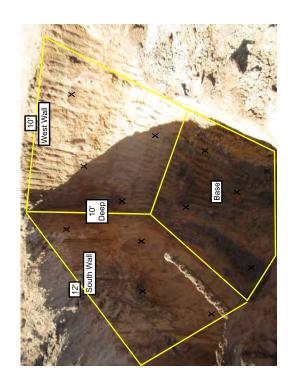
Ph (505) 532-1881 Fx (505) 632-1865

labadmin@envirotech-inc.com

# Remedial Excavation April 17, 2020









# **Analytical Report**

#### **Report Summary**

Client: BP America Production Co.

Samples Received: 4/17/2020 Job Number: 03143-0424 Work Order: P004107

Project Name/Location: ELLIOT GC B 1A

Report	Reviewed	By:



Date:

4/21/20

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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. 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.

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Reported: Steve Moskal 04/21/20 12:34

#### **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
N & E Sidewalls	P004107-01A	Soil	04/17/20	04/17/20	Glass Jar, 4 oz.
S & W Sidewalls	P004107-02A	Soil	04/17/20	04/17/20	Glass Jar, 4 oz.
Base @ 10'	P004107-03A	Soil	04/17/20	04/17/20	Glass Jar, 4 oz.

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 04/21/20 12:34

#### N & E Sidewalls P004107-01 (Solid)

P004107-01 (Solid)									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	2.92	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Toluene	62.9	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Ethylbenzene	22.6	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
p,m-Xylene	202	0.500	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
o-Xylene	51.4	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Total Xylenes	254	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-1.	50	2017002	04/20/20	04/20/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	2900	25.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Oil Range Organics (C28-C40)	78.1	50.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Surrogate: n-Nonane		979 %	50-20	00	2017003	04/20/20	04/20/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	2480	200	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-1.	50	2017002	04/20/20	04/20/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2017001	04/20/20	04/20/20	EPA 300.0/9056A	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/21/20 12:34

#### S & W Sidewalls P004107-02 (Solid)

		P0041	07-02 (Son	a)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	1.08	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Toluene	21.7	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Ethylbenzene	8.65	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
p,m-Xylene	78.5	0.500	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
o-Xylene	20.1	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Total Xylenes	98.6	0.250	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %	50-1.	50	2017002	04/20/20	04/20/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	3210	25.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Oil Range Organics (C28-C40)	360	50.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Surrogate: n-Nonane		362 %	50-20	00	2017003	04/20/20	04/20/20	EPA 8015D	S5
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	947	200	mg/kg	10	2017002	04/20/20	04/20/20	EPA 8015D	_
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	50-1.	50	2017002	04/20/20	04/20/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	26.3	20.0	mg/kg	1	2017001	04/20/20	04/20/20	EPA 300.0/9056A	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424
Project Manager: Steve Moskal

**Reported:** 04/21/20 12:34

#### Base @ 10' P004107-03 (Solid)

		P0041	.07-03 (Sol	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
Toluene	0.155	0.0250	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
Ethylbenzene	0.152	0.0250	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
p,m-Xylene	2.17	0.0500	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
o-Xylene	0.660	0.0250	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
Total Xylenes	2.83	0.0250	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-1	150	2017002	04/20/20	04/20/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	83.0	25.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017003	04/20/20	04/20/20	EPA 8015D	
Surrogate: n-Nonane		97.0 %	50-2	200	2017003	04/20/20	04/20/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0								
Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	1	2017002	04/20/20	04/20/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	50-1	150	2017002	04/20/20	04/20/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2017001	04/20/20	04/20/20	EPA 300.0/9056A	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/21/20 12:34

# **Volatile Organics by EPA 8021 - Quality Control**

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2017002 - Purge and Trap EPA 5030A										
Blank (2017002-BLK1)				Prepared: (	04/20/20 0 A	Analyzed: 0	04/20/20 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	8.34		"	8.00		104	50-150			
LCS (2017002-BS1)				Prepared: (	04/20/20 0 A	Analyzed: 0	04/20/20 1			
Benzene	4.97	0.0250	mg/kg	5.00		99.4	70-130			
Toluene	4.95	0.0250	"	5.00		99.0	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.7	70-130			
p,m-Xylene	9.86	0.0500	"	10.0		98.6	70-130			
o-Xylene	4.95	0.0250	"	5.00		99.0	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150			
Matrix Spike (2017002-MS1)	Sour	ce: P004108-	01	Prepared: (	04/20/20 0 A	Analyzed: 0	04/20/20 1			
Benzene	5.05	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.8	61.4-133			
p,m-Xylene	9.97	0.0500	"	10.0	ND	99.7	63.3-131			
o-Xylene	5.02	0.0250	"	5.00	ND	100	63.3-131			
Total Xylenes	15.0	0.0250	"	15.0	ND	99.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.54		"	8.00		107	50-150			
Matrix Spike Dup (2017002-MSD1)	Sour	ce: P004108-	01	Prepared: (	04/20/20 0 A	Analyzed: 0	04/20/20 1			
Benzene	5.00	0.0250	mg/kg	5.00	ND	99.9	54.3-133	1.09	20	
Toluene	4.97	0.0250	"	5.00	ND	99.4	61.4-130	1.09	20	
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133	0.709	20	
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131	0.686	20	
o-Xylene	4.98	0.0250	"	5.00	ND	99.5	63.3-131	0.899	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.2	0-200	0.757	200	
Surrogate: 4-Bromochlorobenzene-PID	8.33		"	8.00		104	50-150			-
-										

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

Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/21/20 12:34

# 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
Batch 2017003 - DRO Extraction EPA 3570										
Blank (2017003-BLK1)				Prepared: 0	)4/20/20 0 A	Analyzed: 0	4/20/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.4		"	50.0		92.7	50-200			
LCS (2017003-BS1)				Prepared: 0	)4/20/20 0 A	Analyzed: 0	4/20/20 1			
Diesel Range Organics (C10-C28)	456	25.0	mg/kg	500		91.3	38-132			
Surrogate: n-Nonane	49.8		"	50.0		99.6	50-200			
Matrix Spike (2017003-MS1)	Sour	rce: P004104-	01	Prepared: 0	)4/20/20 0 A	Analyzed: 0	4/21/20 1			
Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500	ND	87.6	38-132			
Surrogate: n-Nonane	46.1		"	50.0		92.3	50-200			
Matrix Spike Dup (2017003-MSD1)	Sour	rce: P004104-	D1	Prepared: 0	)4/20/20 0 A	Analyzed: 0	4/20/20 1			
Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	ND	88.8	38-132	1.31	20	
Surrogate: n-Nonane	48.0		"	50.0		96.0	50-200			

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Project Name:

Reporting

ELLIOT GC B 1A

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 04/21/20 12:34

RPD

%REC

# Nonhalogenated Organics by 8015 - GRO - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2017002 - Purge and Trap EPA 5030A										
Blank (2017002-BLK1)				Prepared: (	04/20/20 0 A	Analyzed: 0	4/20/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			
LCS (2017002-BS2)				Prepared: (	04/20/20 0 A	Analyzed: 0	4/20/20 1			
Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		"	8.00		94.9	50-150			
Matrix Spike (2017002-MS2)	Sourc	e: P004108-	01	Prepared: (	04/20/20 0 A	Analyzed: 0	4/20/20 1			
Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			
Matrix Spike Dup (2017002-MSD2)	Sourc	e: P004108-	01	Prepared: (	04/20/20 0 A	Analyzed: 0	4/20/20 2			
Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0	ND	94.5	70-130	0.206	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		"	8.00		93.5	50-150			

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Project Name:

Reporting

ELLIOT GC B 1A

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424
Project Manager: Steve Moskal

**Reported:** 04/21/20 12:34

RPD

%REC

# Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 2017001 - Anion Extraction EPA 3	300.0/9056A											
Blank (2017001-BLK1)	Prepared: 04/20/20 0 Analyzed: 04/20/20 1											
Chloride	ND	20.0	mg/kg									
LCS (2017001-BS1)				Prepared: (	04/20/20 0 2	Analyzed: 0	4/20/20 1					
Chloride	254	20.0	mg/kg	250		101	90-110					
Matrix Spike (2017001-MS1)	Source	e: P004108-	01	Prepared: (	04/20/20 0 2	Analyzed: 0	4/20/20 1					
Chloride	257	20.0	mg/kg	250	ND	103	80-120					
Matrix Spike Dup (2017001-MSD1)	Source	e: P004108-	01	Prepared: (	04/20/20 0 2	Analyzed: 0	4/20/20 1					
Chloride	255	20.0	mg/kg	250	ND	102	80-120	1.02	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 my differ slightly.

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BP America Production Co. Project Name: ELLIOT GC B 1A

PO Box 22024 Project Number: 03143-0424 Reported: Tulsa OK, 74121-2024 Project Manager: Steve Moskal 04/21/20 12:34

#### **Notes and Definitions**

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

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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Page of

Project: ELLOTT & C.B. 1A Project Manager: Steve Moska/ Address: City, State, Zip Phone: Email:  Time Date Matrix Containers Sample ID Sampled Sampled Sociulation Sample ID 1031 4750 Sociulation Net 1	Report due by: 4/20/20 Attention: 57*vr Muskal CFP Address: City, State, Zip Phone: Email: Email:  S W W SIDE WALS	2018 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Lab WO# POOYINT	+	Job N	DS 143-0424	110 X	RCRA	CWA	SDWA
Manager: Steve Moska/ ste, Zip  Date  Matrix  Containers  Sampled  Mt/260  Sold  Matrix  Moska/  Matrix  Moska/  Moska	Attention: 57evr' Address: City, State, Zip Phone: Email:  SIDEWAUS  SIDEWAUS		OHO OHO	+	03	43-042	×			
ste, Zip  Date Matrix Containers Sampled  A726 Soil	5.0				Ment	sic and Methy	pc			
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Sampled Matrix Containers S	111 5	ST08 A							NM CO	UT AZ
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- x	W SIDEWALLS	×	×	×		×				
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1041 " " 1 BAS	BASE @ 10	8	X	×		×				
Additional Instructions: BILL BPX CONTACT STE	Steve Moskal for Billing P.O.									h
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that t time of collection is considered fraud and may be grounds for legal action. Sampled by:	ampering with or intention	cation, date or			Samples	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 6C on subsequent days.	servation must be r g temp above 0 but	eceived on ice th less than 6°C on	ne day they are s subsequent day	ampled or
Relinquished by (Signature) Date	Time   Received by: (Signature)	Date   17/20	Time 14:36	36	Rece	Received on ice:	Lab Us	Lab Use Only		
Relinduished by: (Signature) Date	Time Received by: (Signature)	Date	Time		F		) F		Į.	
Relinquished by: (Signature) Date	Time Received by: (Signature)	Date	Time		1		2		2	t
					AVG	AVG Temp °C_ 4	_			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	e: B - gla	- d 'SSE	ooly/pla	stic, ag - amk	ner glass, v -	VOA		

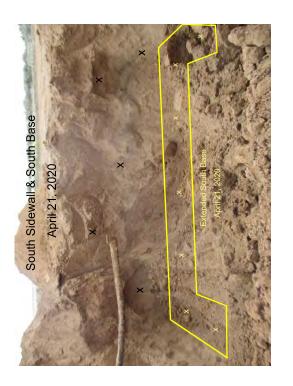
24 Haur Emergency Response Phone (800) 352-1879 5796 US Highway 64, Famington, NM 87401 envirotech Analytical Laboratory

labadmin@envirotech-inc.com envirotech-inc.com

Ph (505) 632-1881 Fx (505) 632-1865

# Remedial Excavation April 21, 2020











# **Analytical Report**

# **Report Summary**

Client: BP America Production Co.

Samples Received: 4/21/2020 Job Number: 03143-0424 Work Order: P004117

Project Name/Location: ELLIOT GC B 1A

Report	Reviewed	By:
--------	----------	-----



Date:

4/23/20

Walter Hinchman, Laboratory Director



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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

# **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Base	P004117-01A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.
North Base	P004117-02A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.
North Sidewall	P004117-03A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.
South Sidewall	P004117-04A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.
East Sidewall	P004117-05A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.
West Sidewall	P004117-06A	Soil	04/21/20	04/21/20	Glass Jar, 4 oz.

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 04/23/20 13:37

#### **South Base** P004117-01 (Solid)

			17-01 (50)	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	150	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	28.8	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		84.8 %	50-2	200	2017023	04/22/20	04/22/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	50-	150	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Steve Moskal

Reported: 04/23/20 13:37

#### **North Base** P004117-02 (Solid)

		F 0041	17-02 (5011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	0.117	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	0.0838	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	0.847	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	0.246	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	1.09	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		109 %	50-1.	50	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	112	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		91.8 %	50-20	00	2017023	04/22/20	04/22/20	EPA 8015D	_
Nonhalogenated Organics by 8015 - GR	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	50-1.	50	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

#### **North Sidewall** P004117-03 (Solid)

			17-03 (30	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	O								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		85.6 %	50-	200	2017023	04/22/20	04/22/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	50-	150	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

#### **South Sidewall** P004117-04 (Solid)

		1 00 41	17-04 (50)	iu					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50-	150	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		85.5 %	50-2	200	2017023	04/22/20	04/22/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	50	150	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

#### **East Sidewall** P004117-05 (Solid)

			17-03 (30)	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	50-	150	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	O								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		77.7 %	50	200	2017023	04/22/20	04/22/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	50-	150	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

#### West Sidewall P004117-06 (Solid)

			17-00 (30	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	150	2017022	04/21/20	04/22/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	O								
Diesel Range Organics (C10-C28)	46.8	25.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017023	04/22/20	04/22/20	EPA 8015D	
Surrogate: n-Nonane		87.9 %	50-	200	2017023	04/22/20	04/22/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/21/20	04/22/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	50-	150	2017022	04/21/20	04/22/20	EPA 8015D	

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

# **Volatile Organics by EPA 8021 - Quality Control**

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2017022 - Purge and Trap EPA 5030A										
Blank (2017022-BLK1)				Prepared: (	04/21/20 1 <i>A</i>	Analyzed: 0	04/22/20 0			
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	8.26		"	8.00		103	50-150			
LCS (2017022-BS1)				Prepared: (	04/21/20 1 A	Analyzed: 0	04/22/20 0			
Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.02	0.0250	"	5.00		100	70-130			
Ethylbenzene	4.99	0.0250	"	5.00		99.8	70-130			
p,m-Xylene	9.97	0.0500	"	10.0		99.7	70-130			
o-Xylene	5.02	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0250	"	15.0		100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.28		"	8.00		104	50-150			
Matrix Spike (2017022-MS1)	Sou	rce: P004117-	01	Prepared: (	04/21/20 1 <i>A</i>	Analyzed: 0	04/22/20 0			
Benzene	4.97	0.0250	mg/kg	5.00	ND	99.4	54.3-133			
Toluene	4.94	0.0250	"	5.00	ND	98.9	61.4-130			
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.4	61.4-133			
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.1	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.45		"	8.00		106	50-150			
Matrix Spike Dup (2017022-MSD1)	Sou	rce: P004117-	01	Prepared: (	04/21/20 1 <i>A</i>	Analyzed: 0	04/22/20 0			
Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	3.63	20	
Toluene	5.12	0.0250	"	5.00	ND	102	61.4-130	3.42	20	
Ethylbenzene	5.10	0.0250	"	5.00	ND	102	61.4-133	3.46	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	3.57	20	
o-Xylene	5.13	0.0250	"	5.00	ND	103	63.3-131	3.39	20	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	0-200	3.51	200	
Surrogate: 4-Bromochlorobenzene-PID	8.43		"	8.00		105	50-150			
0										

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 04/23/20 13:37

# 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
Batch 2017023 - DRO Extraction EPA 3570										
Blank (2017023-BLK1)				Prepared: (	04/22/20 0 A	Analyzed: 0	4/22/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.9		"	50.0		99.8	50-200			
LCS (2017023-BS1)				Prepared: (	04/22/20 0 A	Analyzed: 0	4/22/20 1			
Diesel Range Organics (C10-C28)	430	25.0	mg/kg	500		86.0	38-132			
Surrogate: n-Nonane	47.3		"	50.0		94.5	50-200			
Matrix Spike (2017023-MS1)	Sou	rce: P004117-0	01	Prepared: (	04/22/20 0 A	Analyzed: 0	4/22/20 1			
Diesel Range Organics (C10-C28)	467	25.0	mg/kg	500	28.8	87.7	38-132			
Surrogate: n-Nonane	47.7		"	50.0		95.3	50-200			
Matrix Spike Dup (2017023-MSD1)	Sou	rce: P004117-0	01	Prepared: (	04/22/20 0 A	Analyzed: 0	4/22/20 1			
Diesel Range Organics (C10-C28)	484	25.0	mg/kg	500	28.8	90.9	38-132	3.39	20	
Surrogate: n-Nonane	48.0		"	50.0		96.1	50-200			

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Project Name:

ELLIOT GC B 1A

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal

Reporting

**Reported:** 04/23/20 13:37

RPD

%REC

# Nonhalogenated Organics by 8015 - GRO - Quality Control

# **Envirotech Analytical Laboratory**

		repering		~pm•	50000		701120			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2017022 - Purge and Trap EPA 5030A										
Blank (2017022-BLK1)				Prepared: (	04/21/20 1	Analyzed: 0	4/22/20 0			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
LCS (2017022-BS2)				Prepared: (	04/21/20 1 2	Analyzed: 0	4/22/20 0			
Gasoline Range Organics (C6-C10)	44.8	20.0	mg/kg	50.0		89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			
Matrix Spike (2017022-MS2)	Sour	ce: P004117-0	01	Prepared: (	04/21/20 1 2	Analyzed: 0	4/22/20 0			
Gasoline Range Organics (C6-C10)	47.1	20.0	mg/kg	50.0	ND	94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		93.9	50-150			
Matrix Spike Dup (2017022-MSD2)	Sour	ce: P004117-0	01	Prepared: (	04/21/20 1 2	Analyzed: 0	4/22/20 0			
Gasoline Range Organics (C6-C10)	40.4	20.0	mg/kg	50.0	ND	80.7	70-130	15.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.7	50-150			

#### 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 my differ slightly.

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Project Name:

ELLIOT GC B 1A

PO Box 22024 Tulsa OK, 74121-2024

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 04/23/20 13:37

#### **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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Client: BP Production				RUSH?	Lal	Lab Use Only		An	alysis	Analysis and Method	la	lab Only
Project: $\not\in \mathcal{U}_U \cup \mathcal{T}$ $\not\in \mathcal{L}$ $\not\subseteq \mathcal{I}_A$ Sampler: Steve Moskal $ oldsymbol{\mathcal{I}}_{\mathcal{E}\mathcal{F}\mathcal{E}} = \mathcal{E}_{\mathcal{A}\mathcal{E}\mathcal{E}}$ Phone: (505) 330-9179 $(\mathcal{S}_{\mathcal{T}\mathcal{E}\mathcal{N}}\mathcal{E})$ Email(s): Steven.Moska@bpx.coml Project Manager: Steve Moskal				3d Page		Lab WO# POC 4117 Job Number 38143-0424	80 by 8015		0.00£ yd s	5106 kg 020/029	Jedanili de	-ab Mumber Cont/Prsrv (s) Y/N
Sample ID		Sample Date	Sample	) Matrix		Containers QTY - Vol/TYPE/Preservative	еко/ры	и хэтв ТРН Бу		1019		
SOUTH BASE		4/2/how		2015	ix you	73		×	×	×		7
NORTH BASE				3	-			×	×	×	- C	~
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UEST SIDEWALL		-		-	_			×	X	×	)	70
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lature)	Time	3	Received by: (Signature)	ure)	Date	Time	T1AVG Temp °C	ى كى د	72(	:	T3	1
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	0 - Other					Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	: g - glass,	lod - d	y/plast	tic, ag - ambe	r glass, v - VC	AG
**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.	d on ice the day t	hey are sampled or	r received pa	cked in ice a	t an avg temp above 0 b	we 0 but less than 6	e °C on subse	dnent d	ays.			
Sample(s) dropped off after hours to a secure drop off area.	Tarea.		Chain or	chain or custody	Notes/ pilling							
Denvirotech	ų,	H 50 9675	5796 US Highway 64, Farmington, NM 87401	gion, NM 87401		Ph (505) 63	Ph (505) 632-0615 Fx (505) 632-1865	5981-1895			100	envirotech-lac.com
Analytical Labora	tory	Three Sprin	soperand 59 - soil	treet, Suite 115, D	Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 25	Ph (970) 259-0615 Fr (800) 362-1879	162-1879				

Page 14 of 14

Client: BP Production					RUSH?	Lal	Lab Use Only		4	nalysi	Analysis and Method		lab Only	ylu
Project: ELLUTT GC B 1A Sampler: Stever Moskal JEFF BALL Phone: (505) 330-9179 (Stever Muskal) Email(s): Steven.Moska@bpx.coml	JEFF BALB Steve Muskal) bpx.coml						12b WO# POC 4117- Job Number 38143-0424	ST08 Vd C		0.00£ yd	5106 ha 0310/020		ab Number	Cont/Prsrv (s) Y/N
Project Manager: Steve Moskal			Sample Date	Sample	Matrix		Containers QTY - Vol/TYPE/Preservative		Vd X3T8		V039		- de	Correct
SOUTH BASE			4 War		7105	ex you	Ž3		×	×	×		7	7
NORTH BASE					-	_			×	×	×		a	
NORTH SIDEWALL									~	×	×		3	
SOUTH SIDEWALL									×	×	×	7	4	
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WEST SIDENAL	21								×	×	×		0	
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Relinquished by: (Signature)	2) Date	1528	Received	Contract Contract	ature)	4/21/20	Time 15:32	**Received on Ice Y	no pa	IC Y	ab Use Only			
Relinquished by: (Signature)	Date	Time	11-	Received by: (Signature	ure)	Date	Time	T1AVG Temp °C	ος du	42		Т3		457
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other	A - Aqueous, O - Ot	her					Container Type: 8 - glass, p - poly/plastic, ag	e: 8 - glas	od - d 's	ly/pla	stic, ag - amber glass, v - VOA	lass, v - V	OA	
**Samples requiring thermal preservation must be received on loe the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	st be received on lo	the day the	y are sampled or	r received par	cked in ice at	an avg temp abo	ive 0 but less than	6 °C on sub	sequent	days.				
Sample(s) dropped off after hours to a secure drop off area.	scure drop off area.			Chain of Custody	Custody	Notes/Billing Info:	g info:							

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

5796 US Highway 64, Farmington, IAN 87401 Three Springs - 65 Mercado Street, Sufte 115, Durango, CD 81301

Senvirotech Analytical Laboratory