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	NCS1934553275
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BP America Production Co			C	OGRID: 77	78		Initial Spill Report	
Contact Name: Steve Moskal			Contact Telephone: (505) 330-9179					
Contact email: steven.moskal@bpx.com			I	ncident#	(assigned by OCD)	NC	S1934553275	
Contact mail	ing address:	1199 Main St., S	uite 101, Durang	go CO, 8130	01			
			Location	n of Rel	ease So	ource		
Latitude: 36.65227° Longitude: -107.14745°								
			(NAD 83 in 6	decimal degree	es to 5 decim	al places)		
Site Name: G	allegos Can	yon Unit 085		S	Site Type: Natural Gas Production Well Pad			
Date Release	Discovered	: October 11, 201	9	A	PI#: 30-0	45-13075		
TT '. T		T 1:				,	1	
Unit Letter	Section 19	Township	Range	Con Inc	Coun	ty		
A	19	T28N	R12W	San Jua	ın			
Surface Owne	r: State		ribal 🗌 Private	(Name:)
Surface Owne	i State	Z rederar Z r						
			Nature ar	nd Volui	me of F	Release		
	Materia	ıl(s) Released (Select a	all that apply and atta	ch calculations	s or specific	justification for the	volumes	provided below)
Crude Oi		Volume Release			,	Volume Recovered (bbls)		
Produced	Water	Volume Releas	ed (bbls): 20			Volume Recovered (bbls): 15		
			ntion of dissolved	l chloride in	the	Yes No	o	
Condonse	uto.	produced water				Volume Reco	warad (hhla). O hhla
Condensate Volume Released (bbls):						`	<u> </u>	
Natural Gas Volume Released (Mcf)					Volume Reco	`		
Other (describe) Volume/Weight Released (provide units			ide units)		Volume/Weig	ht Reco	overed (provide units)	
Cause of Rel		er caused from a s	suspected product	tion well iss	sue that a	nnears to be dox	vnhole	and is under investigation. The
		ter valve at this time		tion wen is	sac, mai a _l	ppears to be do	winioic	and is under investigation. The
The etteched	The attached lab results indicate elevated chloride in the impacted soil. BP will elect to perform a dig and haul.							
i ne attached	iau iesuits i	naicaie eievaied (anoriue iii uie iiii	ipacieu soll.	DI WIII (cicci io perioriii	a uig a	mu naut.
1								

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
	ase has been stopped.
The impacted area has	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.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, explain why:
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation 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 environm failed to adequately investigated to adequately investigated to a second control of the control	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 ate 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: _Steve Mo	Skal Title: Environmental Coordinator
Signature:	Muse Date: <u>October 22, 2019</u>
email: <u>steven.moskal@</u>	<u>bpx.com</u> Telephone: <u>(505) 330-9179</u>
OCD Only	
Received by:	Date: 12/11/19

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

(ft bgs)		
□ •		
es 🛛 No		
es 🗌 No		
es 🛛 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.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody		

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file public health or the environment. The acceptance of a C failed to adequately investigate and remediate contamina	and complete to the best of my knowledge and understand that pursuant to OCD rules and e certain release notifications and perform corrective actions for releases which may endanger C-141 report by the OCD does not relieve the operator of liability should their operations have ation that pose a threat to groundwater, surface water, human health or the environment. In lieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Steve Moskal</u>	Title:Environmental Coordinator
Signature:	Date:
email: <u>steven.moskal@bpx,com</u>	Telephone:(505) 330-9179
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	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) 			
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around p deconstruction.	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 healt	h, 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:	Telephone:		
OCD Only			
Received by:	Date:		
Approved	Approval		
Signature:	<u>Date:</u>		

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

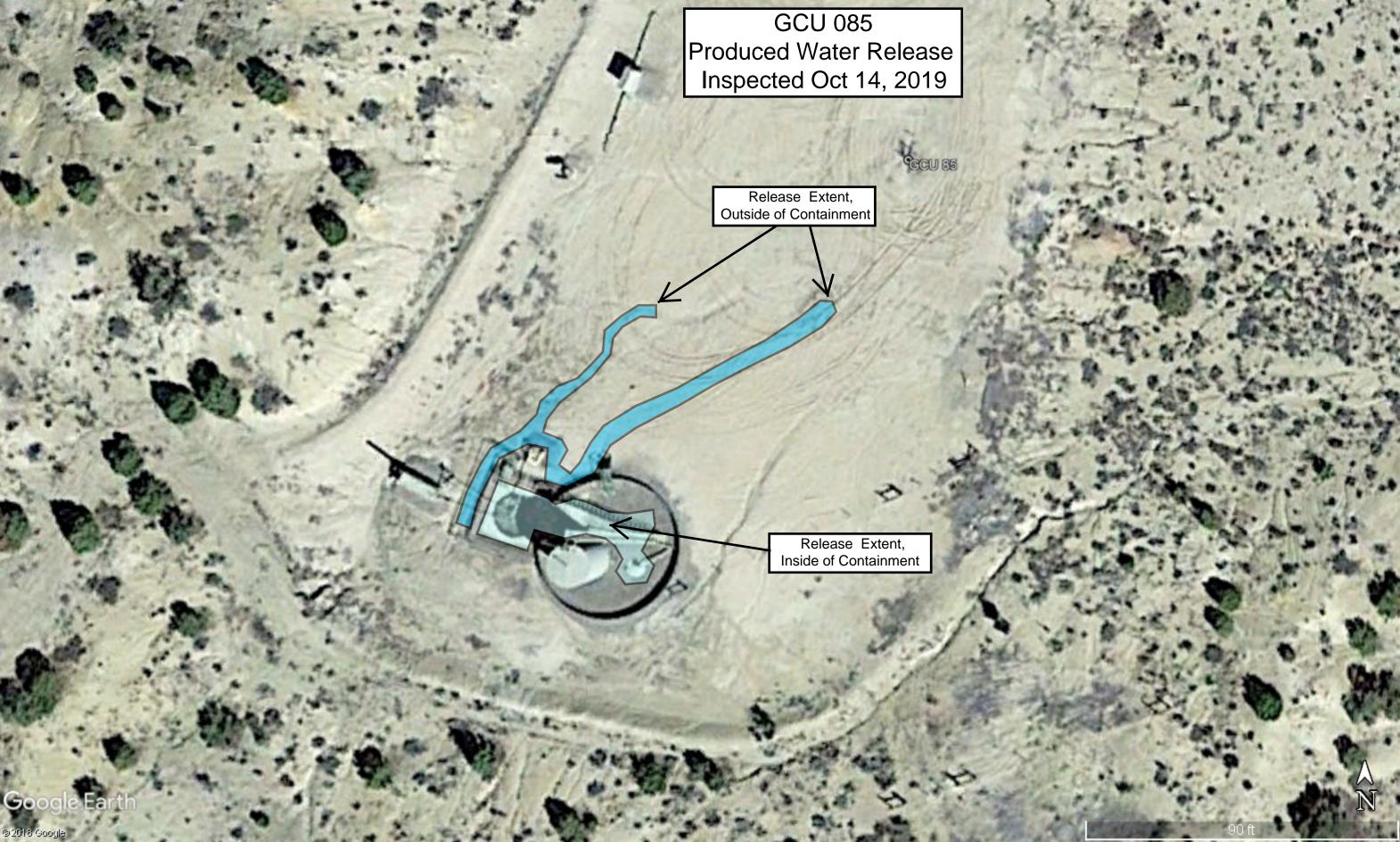
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

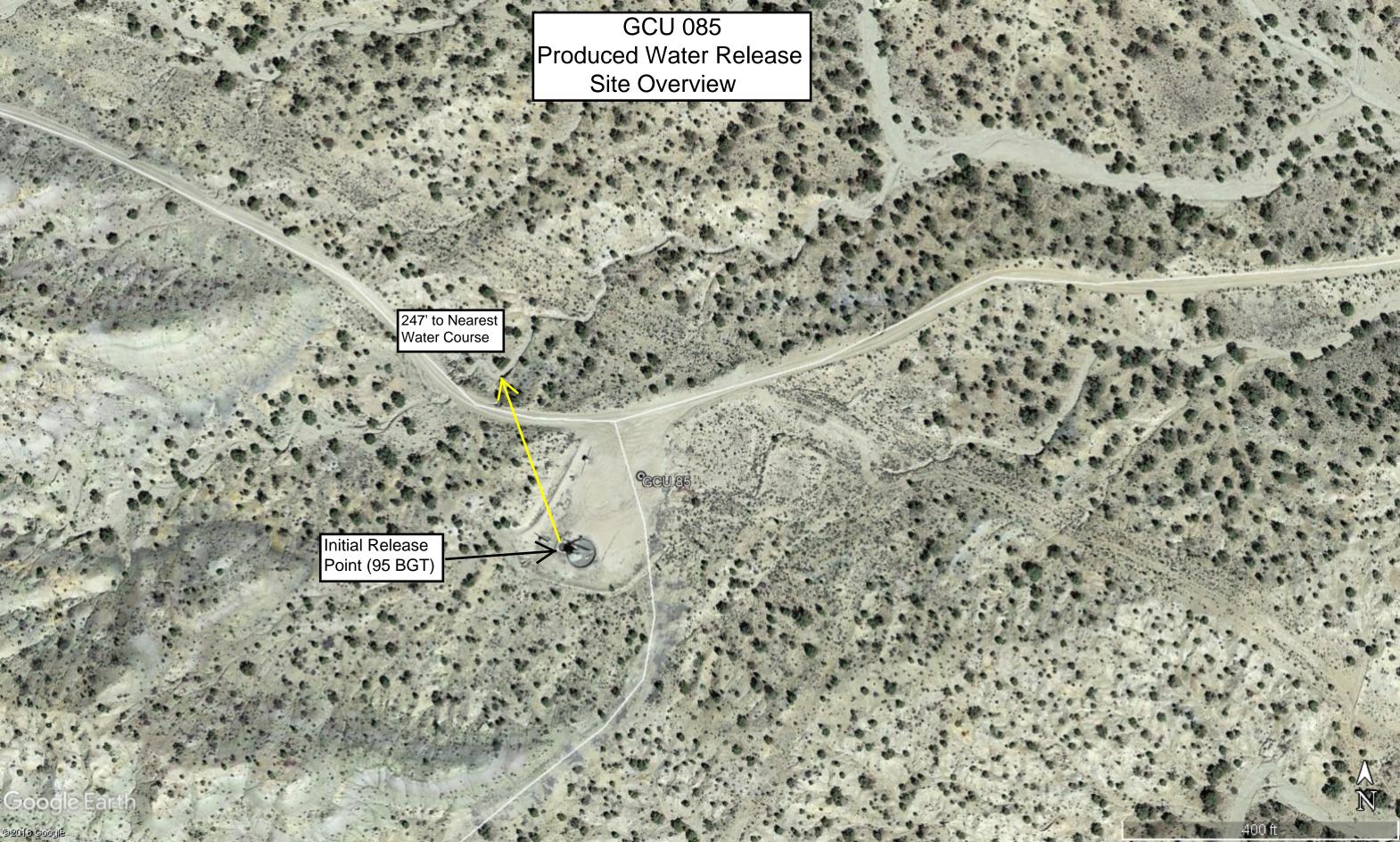
Closure Report Attachment Checklist: Each of the	he following items must be included in the closure report.
A scaled site and sampling diagram as described	in 19.15.29.11 NMAC
Photographs of the remediated site prior to back must be notified 2 days prior to liner inspection)	cfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: app	propriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and may endanger public health or the environment. The ashould their operations have failed to adequately investment in addition, OCD a compliance with any other federal, state, or local laws restore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including notific Printed Name: Steve Moskal Title	
Signature:	Date:
email: steven.moskal@bpx,com	Telephone: (505) 330-9179
OCD Only	
Received by:	Date:
	consible party of liability should their operations have failed to adequately investigate and vater, surface water, human health, or the environment nor does not relieve the responsible ocal laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

CLIENT: BPX	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #. <u>30 - 045 - 13075</u> TANK ID (if applicble):
FIELD REPORT:	(circle one): BGT CONFIRMATION RELEASE INVESTIGATION / OTHER:	PAGE#: of
SITE INFORMATION	I: STENAME: GCU 085	DATE STARTED: 10/14/2019
The state of the s	28N RNG: 12W PM: NM CNTY: SJ ST: NM	DATE FINISHED: 10/14/2019
•	90 FEL LEASE TYPE: FEDERAL/STATE/FEE/INDIAN	ENVIRONMENTAL
	PROD. FORMATION: CONTRACTOR:	SPECIALIST(S): JCB
	: WELL HEAD (W.H.) GPS COORD: 36.65230 × 108.14748	3 GLELEV: 5685
		ARING FROM WH.:
	GPS COORD.: DISTANCERE	
,	GPS COORD.: DISTANCERE	
4)		
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: ENVIROTECH	ÖVM READING
1) SAMPLEID 5-Pt Count 81-"	DUTSIDE DUTSIDE 10/14/19 CAMPRETER 0910 LADAMAIVOR TPH	(nam)
2) SAMPLEID 5- Dt. COMA OL" C	OUTSIDE OUTSID	11 /3.7
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	1
	· · · · · · · · · · · · · · · · · · ·	
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER PLASTICTY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / C	
SITE OBSERVATION	UNITE CRUST FORMING US: LOST INTEGRITY OF EQUIPMENT: (FES) NO EXPLANATION DOWN HOLE IN EDANDIOR OCCURRED: (FES) NO EXPLANATION: WATER VES (NO. EXPLANATION - N.A.	GAS WELL
OTHER:	TESTIO EXPONENTIAL TOTAL	
SOIL IMPACT DIMENSION ESTIMATION	ft. Xft. Xft. EXCAVATION ESTIMA	ITION (Cubic Yards) :
DEPTH TO GROUNDWATER: > 100 N	EAREST WATER SOURCE: \geq 1000 NEAREST SURFACE WATER: $<$ 300 NMO	CD TPH CLOSURE STD: 100 ppm
SITE SKETCH	BGT Located: off / on site PLOT PLAN circle: attached OM	ICALIB. READ. = 99.7 ppm RF=====
	↑ on	A CALIB GAS = 100 ppm
	<i>∕</i> NI™	E 0925 (ampin DATE 10/14
	/y	MISCELL. NOTES
	N N	NO:
(= Outside Containment 5-pt composite		YO#:
-		₭:
= Inside Containment 5-pt composite		7J#:
	195 P	Permit date(s): DCD Appr. date(s): IN OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: Y / N
EARTH BERM	15 BGT 0 25 50 Feet	BGT Sidewalls Visible: Y / N
	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW, T.H. = TEST HOLE; ~= APPROX; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N
	OWGRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WINLL; NA - NOT EWALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: 10° E
NOTES:	ONSITE: 10/14/2019	

BEI1005E-6 SKF

revised: 11/26/13



















Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 10/14/2019 Job Number: 03143-0424 Work Order: P910063

Project Name/Location: GCU 85

Report Reviewed By:	Walter Honderson	Date	e: 10/2	1/19
_			·	

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.

5796 Highway 64, Farmington, NM 87401

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

envirotech-inc.com

Labadmin@envirotech-inc.com



Project Name:

GCU 85

Tulsa OK, 74121-2024

PO Box 22024

Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 10/21/19 12:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Release-5 pt. CompOutside	P910063-01A	Soil	10/14/19	10/14/19	Glass Jar, 4 oz.
Containment					
Release-5 pt. CompWithin	P910063-02A	Soil	10/14/19	10/14/19	Glass Jar, 4 oz.
Containment					

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Project Name:

GCU 85

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 10/21/19 12:23

Release-5 pt. Comp.-Outside Containment P910063-01 (Solid)

		Reporting	03-01 (30114)					
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1942002	10/14/19	10/15/19	EPA 8260B	
Surrogate: Toluene-d8		103 %	70-130	1942002	10/14/19	10/15/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.2 %	98.2 % 70-130		10/14/19	10/15/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942013	10/15/19	10/17/19	EPA 8015D	
Surrogate: n-Nonane		115 %	50-200	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.2 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	3040	200	mg/kg 10	1942010	10/15/19	10/15/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



Project Name:

GCU 85

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

Reported: 10/21/19 12:23

Release-5 pt. Comp.-Within Containment P910063-02 (Solid)

P310003-02 (80Hd)													
		Reporting											
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes					
Volatile Organic Compounds by 8260													
Benzene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
Toluene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
Ethylbenzene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
p,m-Xylene	ND	0.0500	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
o-Xylene	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
Total Xylenes	ND	0.0250	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8260B						
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	1942002	10/14/19	10/15/19	EPA 8260B						
Surrogate: Toluene-d8		103 %	70-130	1942002	10/14/19	10/15/19	EPA 8260B						
Surrogate: Bromofluorobenzene		98.5 %	70-130	1942002	10/14/19	10/15/19	EPA 8260B						
Nonhalogenated Organics by 8015 - DRO/	ORO												
Diesel Range Organics (C10-C28)	ND	50.0	mg/kg 2	1942013	10/15/19	10/17/19	EPA 8015D						
Oil Range Organics (C28-C40)	ND	100	mg/kg 2	1942013	10/15/19	10/17/19	EPA 8015D						
Surrogate: n-Nonane		125 %	50-200	1942013	10/15/19	10/17/19	EPA 8015D						
Nonhalogenated Organics by 8015 - GRO													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942002	10/14/19	10/15/19	EPA 8015D						
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D						
Surrogate: Toluene-d8		103 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D						
Surrogate: Bromofluorobenzene		98.5 %	70-130	1942002	10/14/19	10/15/19	EPA 8015D						
Anions by 300.0/9056A													
Chloride	3690	200	mg/kg 10	1942010	10/15/19	10/15/19	EPA 300.0/9056A						

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5796 Highway 64, Farmington, NM 87401

Labadmin@envirotech-inc.com



Project Name:

Reporting

GCU 85

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 10/21/19 12:23

RPD

%REC

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

		recporting		Spine						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942002 - Purge and Trap EPA 50	30A									
Blank (1942002-BLK1)				Prepared: 1	10/14/19 0 A	Analyzed: 1	0/15/19 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: 1,2-Dichloroethane-d4	0.528		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.510		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.481		"	0.500		96.1	70-130			
LCS (1942002-BS1)				Prepared: 1	10/14/19 0 A	Analyzed: 1	0/15/19 1			
Benzene	2.06	0.0250	mg/kg	2.50		82.4	70-130			
Toluene	2.18	0.0250	"	2.50		87.2	70-130			
Ethylbenzene	2.25	0.0250	"	2.50		90.1	70-130			
p,m-Xylene	4.41	0.0500	"	5.00		88.2	70-130			
o-Xylene	2.21	0.0250	"	2.50		88.4	70-130			
Total Xylenes	6.62	0.0250	"	7.50		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		"	0.500		104	70-130			
Surrogate: Toluene-d8	0.526		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.510		"	0.500		102	70-130			
Matrix Spike (1942002-MS1)	Sour	ce: P910061-	01	Prepared: 1	10/14/19 0 A	Analyzed: 1	0/15/19 1			
Benzene	2.12	0.0250	mg/kg	2.50	ND	84.8	48-131			
Toluene	2.22	0.0250	"	2.50	ND	88.7	48-130			
Ethylbenzene	2.29	0.0250	"	2.50	ND	91.6	45-135			
p,m-Xylene	4.50	0.0500	"	5.00	ND	90.1	43-135			
o-Xylene	2.25	0.0250	"	2.50	ND	89.9	43-135			
Total Xylenes	6.75	0.0250	"	7.50	ND	90.0	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.523		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.520		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.500		"	0.500		99.9	70-130			
Matrix Spike Dup (1942002-MSD1) Source: P910061-01 Prepared: 10/14/19 0 Analyzed: 10/15/19 1										
Benzene	2.32	0.0250	mg/kg	2.50	ND	93.0	48-131	9.16	23	
Toluene	2.40	0.0250	"	2.50	ND	96.1	48-130	7.97	24	
Ethylbenzene	2.48	0.0250	"	2.50	ND	99.1	45-135	7.82	27	
p,m-Xylene	4.86	0.0500	"	5.00	ND	97.2	43-135	7.64	27	
o-Xylene	2.43	0.0250	"	2.50	ND	97.2	43-135	7.78	27	
Total Xylenes	7.29	0.0250	"	7.50	ND	97.2	43-135	7.69	27	

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0.500

0.500

0.500

104

104

101

70-130

70-130

70-130

0.520

0.521

0.503

5796 Highway 64, Farmington, NM 87401

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

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

envirotech-inc.com
Labadmin@envirotech-inc.com



Project Name:

GCU 85

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 10/21/19 12:23

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 1942013 - DRO Extraction EPA 3570	Result	Lillit	Units	Level	Result	70KEC	Lillits	KFD	Liiiit	Notes		
Blank (1942013-BLK1)												
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg									
Oil Range Organics (C28-C40)	ND	50.0	"									
Surrogate: n-Nonane	54.5		"	50.0		109	50-200					
LCS (1942013-BS1)				Prepared: 10/15/19 1 Analyzed: 10/16/19 2								
Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500		104	38-132					
Surrogate: n-Nonane	53.9		"	50.0		108	50-200					
Matrix Spike (1942013-MS1)	Sou	rce: P910066-	11	Prepared: 1	10/15/19 1	0/16/19 2						
Diesel Range Organics (C10-C28)	548	25.0	mg/kg	500	ND	110	38-132					
Surrogate: n-Nonane	55.8		"	50.0		112	50-200					
Matrix Spike Dup (1942013-MSD1)	Sou	rce: P910066-	11	Prepared: 1	10/15/19 1	Analyzed: 1	0/16/19 2					
Diesel Range Organics (C10-C28)	556	25.0	mg/kg	500	ND	111	38-132	1.50	20			
Surrogate: n-Nonane	55.2		"	50.0		110	50-200					

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Project Name:

Reporting

Limit

Result

46.8

0.527

0.525

0.500

GCU 85

Spike

Level

Source

Result

%REC

%REC

Limits

70-130

70-130

70-130

70-130

105

105

100

1.13

20

RPD

PO Box 22024 Tulsa OK, 74121-2024

Gasoline Range Organics (C6-C10)

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Analyte

Project Number: 03143-0424 Project Manager: Steve Moskal

Reported: 10/21/19 12:23

Notes

RPD

Limit

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Units

Blank (1942002-BLK1)	Prepared: 10/14/19 0 Analyzed: 10/15/19 1										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg								
Surrogate: 1,2-Dichloroethane-d4	0.528		"	0.500		106	70-130				
Surrogate: Toluene-d8	0.510		"	0.500		102	70-130				
Surrogate: Bromofluorobenzene	0.481		"	0.500		96.1	70-130				
LCS (1942002-BS2)	(1942002-BS2)										
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130				
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130				
Surrogate: Bromofluorobenzene	0.496		"	0.500		99.1	70-130				
Matrix Spike (1942002-MS2)	Source	e: P910061-	01	Prepared: 1	0/14/19 0	Analyzed: 1	0/15/19 1				
Gasoline Range Organics (C6-C10)	46.3	20.0	mg/kg	50.0	ND	92.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.531		"	0.500		106	70-130				
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130				
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.7	70-130				
Matrix Spike Dup (1942002-MSD2) Source: P910061-01					Prepared: 10/14/19 0 Analyzed: 10/15/19 1						

mg/kg

0.500

0.500

0.500

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Labadmin@envirotech-inc.com

5796 Highway 64, Farmington, NM 87401



Project Name:

Reporting

GCU 85

Spike

Source

PO Box 22024 Tulsa OK, 74121-2024 Project Number: 03143-0424 Project Manager: Steve Moskal **Reported:** 10/21/19 12:23

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes					
Batch 1942010 - Anion Extraction EPA 30	tch 1942010 - Anion Extraction EPA 300.0/9056A														
Blank (1942010-BLK1)	Prepared & Analyzed: 10/15/19 1														
Chloride	ND	20.0	mg/kg												
LCS (1942010-BS1)				Prepared & Analyzed: 10/15/19 1											
Chloride	254	20.0	mg/kg	250		102	90-110								
Matrix Spike (1942010-MS1)	Source	: P910063-	01	Prepared &	Analyzed:	10/15/19 1									
Chloride	3290	200	mg/kg	250	3040	97.0	80-120								
Matrix Spike Dup (1942010-MSD1)	Source	: P910063-	01	Prepared &	Analyzed:	10/15/19 1									
Chloride	3420	200	mg/kg	250	3040	150	80-120	3.94	20	M4					

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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5796 Highway 64, Farmington, NM 87401



BP America Production Co. Project Name: GCU 85

 PO Box 22024
 Project Number:
 03143-0424
 Reported:

 Tulsa OK, 74121-2024
 Project Manager:
 Steve Moskal
 10/21/19 12:23

Notes and Definitions

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.

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:	BPX E	nergy			Report Attention eport due by: 10/21/2019					Lab Use Only						TAT		EPA Program				
Project:	GCU	95	101.1.1			Report o	lue by: 10 /		Lab	WO	#		Job	Num	ber	1	D 30	R	CRA	CWA	SDWA	
Address:	<u>Manager:</u>	Steve	Maska/				n: Steve	Pa	1160	20 3		03	143-	040	4							
City, Stat						Address				_				Analy	ysis ar	nd Me	thod					ate
Phone:	.e, zip					City, Sta	te, Zip					1									NM CO	UT AZ
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Lilian.						Email:				by 80 by 80			8	0	90.0					İ	TX OK	
Time	Date		No							~ 용	8	26	y 82	601	Je 3(- 1	-			
Sampled	Sampled	Matrix	Containers	Sample ID					Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		1				Ren	narks
0910	10/4/2019	SOIL	1	RELEASE	- 5pt	Сомр	- Outside	Containmen	1	X	X	X	>	2	X				1	-		
0920	14/2019	1	1	RELEASE	- 5 pt	c. Comp-	Within C	containment	2	×	X	×			×	1						-
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, (field sampler), attest to the on is considere	validity and au ed fraud and m	thenticity of the	nis sample. I am for legal action.	aware that Sampled by:	tampering with	or intentionally mis	slabelling the sample lo	cation, date or				-			thermal p	reservati	n must be	received	on ice the	day they are san	npled or
Relinquished	d by: (Signat	ture)	Date	Ţ	ime 1031	Recei	yed by: (Signat		Date 10 14		Time 19:30			Dane		on ice		Lab U		ly		
Relinquished	d by: (Signat	ture)	Date		ime		ved by: (Signat	ure)	Date	PI	Time	20			ivea (on ice						
Relinquished	d by: (Signat	:ure)	Date	T	ime	Receiv	ved by: (Signat	ure)	Date		Time			T1			<u></u>				T3	
Samole Matrix	r: \$ - Soil &4	- Solid Se S	ludgo A A=	Jeous, O - Oth									/	AVG	Temp	°C	4					HIM NO.
Note: Samples	are discarde	d 30 days aft	er results are	reported unle	s other are	angements are	made Hazarde	ous samples will be re	Container	Type	g - gl	ass, p	- po	ly/pla	stic, a	ı g - am	iber g	ass, v -	VOA			
only to those s	amples recei	ved by the la	boratory with	this COC. The	e liability of	the laboratory	is limited to the	amount paid for on	the report.	or aist	rosea a	n at the	e ciient	expens	se. The	report	tor the	inalysis	of the al	oove sa	nples is appli	cable

