

April 14, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request PLU CVX JV BS 013H

Incident Number nAPP2428842762

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the PLU CVX JV BS 013H (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), was to address impacts to soil resulting from a release of crude oil and produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2428842762.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.18173°, -103.83361°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 11, 2024, corrosion on a production flow line resulted in the release of 10 barrels (bbls) of produced water and 2 bbls of crude oil onto a right-of-way (ROW) and into the adjacent pasture. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on October 14, 2024. The release was assigned Incident Number NAPP2428842762.

Ensolum conducted Site assessment and delineation activities and presented the results in the *Work Plan*. The *Work Plan* was submitted on January 2, 2025, and was approved by the NMOCD on January 15, 2025. The *Work Plan* proposed excavation of impacted and waste-containing soil identified during delineation activities. Delineation sample locations are depicted on Figure 1.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

• Benzene: 10 milligrams per kilogram (mg/kg)

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

 Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kgChloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between February 5 and February 24, 2025, Ensolum personnel were onsite to oversee excavation of impacted soil according to the approved *Work Plan*. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening results indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS09 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during the excavation activities and a Photographic Log is provided in Appendix A.

The confirmation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The final excavation extent measured approximately 1,790 square feet. A total of approximately 240 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at Owl Landfill Service, LLC in Jal, New Mexico. Copies of disposal manifests are provided in Appendix B. The final excavation was fenced off pending backfill activities.

LABORATORY ANALYTICAL RESULTS

As detailed in the *Work Plan*, delineation soil samples SS01/BH01 through SS03/BH03 indicated the presence of chloride impacted soil. These soil samples were removed during excavation activities. Laboratory analytical results for excavation floor soil sample FS06, collected at 2 feet bgs, indicated chloride concentrations exceeded the reclamation requirement. Additional soil was removed from the area and confirmation soil sample FS06A, collected at 3 feet bgs, indicated COC concentrations were compliant with the reclamation requirement. Analytical results for the remaining excavation floor and sidewall soil samples indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.



XTO Energy, Inc PLU CVX JV BS 013H Closure Request

CLOSURE REQUEST

Excavation activities were conducted at the Site as outlined in the *Work Plan* to address the October 11, 2024, release of crude oil and produced water. The approved *Work Plan* is provided in Appendix D. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement, where applicable. Based on the soil sample laboratory analytical results, no further remediation is required. The excavated area will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions. The area will be reseeded with an approved BLM seed mixture and monitored for vegetation regrowth.

Excavation of soil has mitigated impacts at this Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2428842762.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum**, **LLC**

Jesse Dorman

Associate Geologist

Josse leona

Ashley L. Ager, M.S., P.G. Principal

ashley L. ager

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Delineation Soil Sample Locations
Figure 2 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

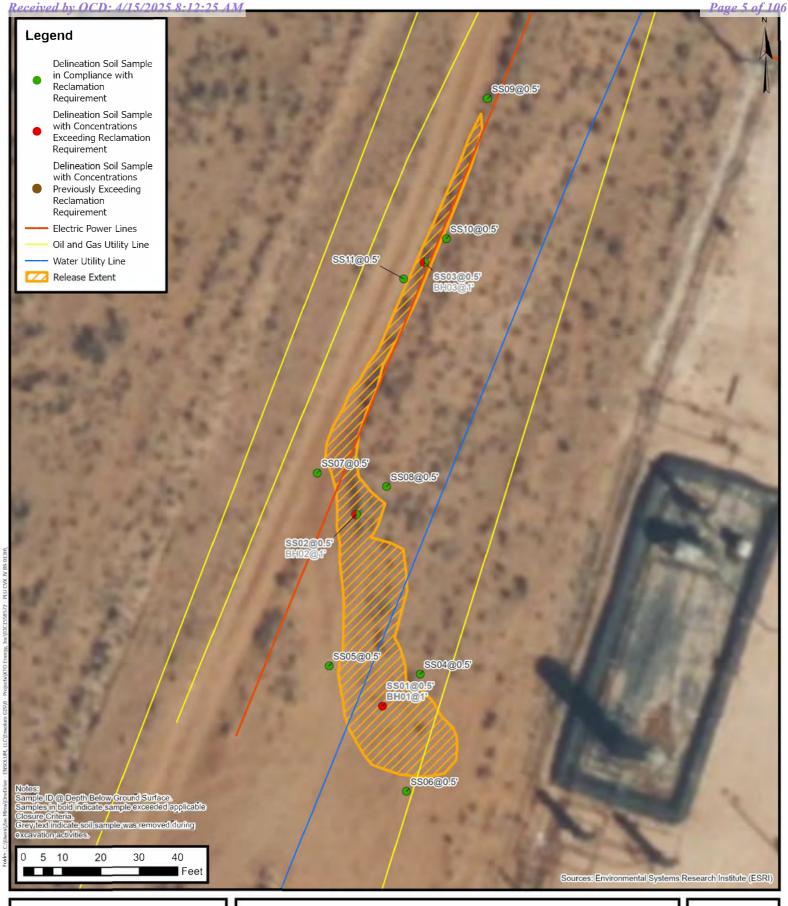
Appendix A Photographic Log Appendix B Disposal Manifests

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D January 2, 2025 Remediation Work Plan



FIGURES

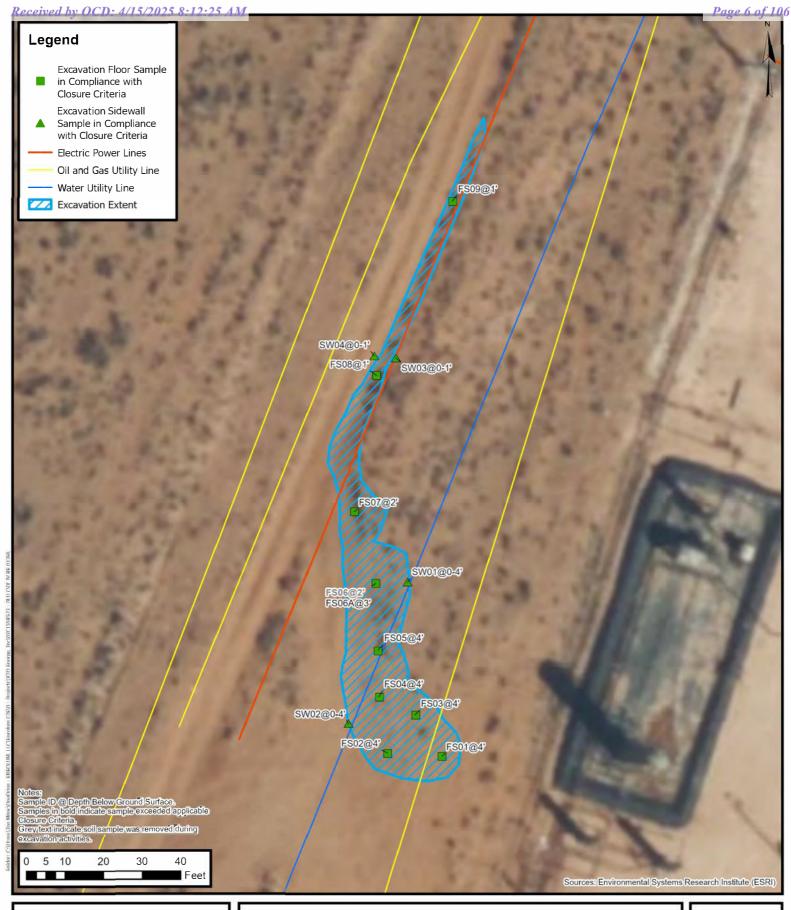




Delineation Soil Sample Locations

XTO Energy, Inc.
PLU CVX JV BS 013H
Incident Number: nAPP2428842762
Unit O, Section 25, T 24S, R 30E
Eddy County, New Mexico

FIGURE





Excavation Soil Sample Locations

XTO Energy, Inc.
PLU CVX JV BS 013H
Incident Number: nAPP2428842762
Unit O, Section 25, T 24S, R 30E
Eddy County, New Mexico

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU CVX JV BS 013H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delinea	tion Soil Samp	es				
SS01	10/31/2024	0.5	<0.050	<0.300	<10.0	25.6	<10.0	25.6	25.6	8,780
BH01	11/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420
SS02	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640
BH02	11/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	10/31/2024	0.5	<0.050	<0.300	<10.0	67.5	12.6	67.5	80.1	4,000
BH03	11/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS05	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS07	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS11	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
				Confirma	ation Soil Samp	oles				
FS01	02/10/2025	4	<0.050	<0.300	<10.0	255	86.7	255	342	1,570
FS02	02/10/2025	4	<0.050	<0.300	<10.0	26.3	<10.0	26.3	26.3	2,110
FS03	02/10/2025	4	<0.050	<0.300	<10.0	29.7	<10.0	29.7	29.7	1,550
FS04	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS05	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS06	02/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
FS06A	02/24/2025	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS07	02/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS08	02/10/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS09	02/10/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW01	02/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW02	02/10/2025	0-4	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU CVX JV BS 013H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW03	02/10/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW04	02/10/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or

reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc PLU CVX JV BS 013H Incident Number nAPP2428842762





Photograph 1 Date: 2/10/2025 Description: Excavation extent, area of SW02/FS03.

View: Southwest

Date: 2/10/2025 Photograph 2

Description: Excavation extent, area of FS09.

View: Northeast





Photograph 3 Date: 2/24/2025 Description: Excavation extent, northern release area.

View: South

Photograph 4

Date: 2/24/2025 Description: Excavation extent, southern release area.

View: Northwest



APPENDIX B

Disposal Manifests

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Company Man Contact Information

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REQUIRED INFORMATION

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Phone No.	1973326	5

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All non-exem	NON-EXEMPT E& opt E&P waste must be analysed and be	P Waste/Service Identification and Ambelow threshold limits for toxicity (TCLF	ount 1), Ignitability, Corrosivity adn Read	ctivity.
Non-Exempt Other			ct from Non-Exempt Waste Lis	
DISPOSAL QUANTITY	B - BARRELS	ada L - LIQUID i bast revino en	/ E Y-YARDS	WORLD E - EACH O
per lo RCRA NON-EXEMPT: Oil fie 40 CF waste MSD EMERGENCY NON-OILFIELD Emer	eld wastes generated from oil and gas expand basis only) eld waste which is non-hazardous that do the 261.21-261.24, or listed hazardous waste as non-hazardous is attached. (Check the standard of the waste mination and a description of the waste mination and a description of the waste signature. The standard of the waste was was was well as the standard of the waste signature. DRIVER'S SIGNATURE DISI	perploration and production operation and production operation and production operation and person of exceed the minimum standards stee as defined by 40 CFR, part 261, subtle appropriate items as provided) RCRA Hazardous Waste Analysis that has been ordered by the Department accompany this form) DATE RANSPORTER Driver's Name Print Name Phone No. Truck No.	for waste hazardous by characteric part D, as amended. The following Other ent of Public Safety (the order, doc SIGNATURE	istics established in RCRA regulations documentation demonstrating the (Provide Description Below) umentation of non-hazardous waste sted below.
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I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Received by OCD: 4/15/2025 8:12:25 AM NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

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REQUIRED INFORMATION

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I hereby certify that the above listed ma packaged, and is in proper condition for RCRA EXEMPT: RCRA NON-EXEMPT:	Oil field wastes gene per load basis only) Oil field waste which 40 CFR 261.21-261.2 waste as non-hazaro	ng to applicable reguerated from oil and go a ris non-hazardous the 4, or listed hazardou	lation. as exploration a nat does not exce is waste as defin eck the approprie	nd production of eed the minimulated by 40 CFR, ate items as pr	operation and are our standards for water (261, subpart (261) ovided)	not mixed with n	on-exempt was	te (R360 Accepts certifications o cs established in RCRA regulatio ccumentation demonstrating the	on a
EMERGENCY NON-OILFIELD	MSDS Information Emergency non-haza determination and a	rdous, non-oilfield w description of the w	aste that has be	Hazardous Was en ordered by npany this form	the Department of	Public Safety (th	ne order, docume	ovide Description Below)	
(PRINT) AUTHORIZED	AGENTS SIGNATURE	V.	D	ATE CONTRACTOR	u p oled) -		SIGNATURE	is-in-c lind basis NO -	-
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hereby certify that the above named ma		ked up at the Genera	ator's site listed	Truck No.		dent to the dispo		reduced Formation Son woled by	1
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	cility / NM1-006 / US 62 / 180 Mile Ma	ker 66 Carlsbad, NI		Phone No.	575-	392-6368	trot sallar pro	emation has	
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harabic and if that the about land water	dall has book fatures in	1 1000000	P TO SET TREATMENT	DEAUER TOTAL	THE OTHER PROPERTY.	. CONTRIBUTION O	CONTRACTOR OF THE PARTY OF THE	or organization being La	

SIGNATURE

Received by OCD: 4/15/2025 8:12:25 AM NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man (Page 20 of 106
of honorald forwards	of Bodgerons

ENVIRONMENTAL SOLUTIONS	(PLEASE PRINT)	*REQUIRED INFO		one No.
	GENERATOR	The second secon	NO. H	N-735164
Generator Manifest #		or origin	CAN MAN SHAPE	Libra CAD a Hara
Generator Name XTO	Lease/M		ovide the Hadrood C & No Provide the	
Address	County	waste was generated in	ed spirio di vinuo holescel necessa e	County - Provide the
City, State, Zip	API No.	e & No.	ruvide the name of t	Rig Name & No. — P
Phone No.	AFE/PO I		e either the Authoriz	AFEJPO No Ploviu
	vice Identification and Amount (place volun N-INJECTABLE WATERS		barrels or cubic yard R EXEMPT E&P WASTI	
Oil Based Cuttings Wa	shout Water (Non-Injectable)	- In Park		regulateW= gplllings
Water Based Cuttings Prod	npletion Fluid/Flow Back (Non-Injectable) duced Water (Non-Injectable)	mesicones remigin selt n	Waste generated o	Initial Campletion
lank Bottoms	hering Line Water/Waste (Non-Injectable) ERNAL USE ONLY	TOP S	OIL & CALICHE SALES	Production - Waste
EXF Containinated Soil	ck Washout (exempt waste) YES	CHARLES AND DESCRIPTION OF THE PARTY OF THE	ANTITY	TOP SOIL CALICHE
WASTE GENERATION PROCESS: DRILLING	COMPLETION	PRODUCTION	GATHERIN	G LINES
All non gramet EVD weeks	NON-EXEMPT E&P Waste/Service Identificated by the same statement of the same statement o	cation and Amount	Corresivity ada Paret	Auto
Non-Exempt Other	ast be analysed and be below threshold links to	*please select from Non		
DISPOSAL QUANTITY B	- BARRELS eta L LIQUID II	and search with to assure (Y	- YARDS	19 - near E - EACH 0
I hereby certify that the above listed material(s), is (are) not hazal	Perform and your part		7 20	All and the second
packaged, and is in proper condition for transportation according				
per load basis only)				
RCRA NON-EXEMPT: Oil field waste which is 40 CFR 261.21-261.24,	s non-hazardous that does not exceed the minim or listed hazardous waste as defined by 40 CFR	um standards for waste ha	zardous by characteris	tics established in RCRA regulations, locumentation demonstrating the
	us is attached. (Check the appropriate items as p	provided)	_	
In the state of th	RCRA Hazardous Wallous, non-oilfield waste that has been ordered by	TO DOTTINITION OF TOTAL		rovide Description Below)
	escription of the waste must accompany this for	Wash Out Water (m		• Off Short Oil Based Oil
(PRINT) AUTHORIZED AGENTS SIGNATURE	DATE	* Pagwash tot g minds to	SIGNATURE	Dil Beyed Cetrings Off Cascal Brill codings
Unused framiting fulle or acids	TRANSPORTE	3		Water Based Mud
Transporter's assurgments reward policy manager with Name	- Justica	The state of the s	cohen Kill	Water Based Onling to
Address stems of suite allow incliffing atomic	Print Nar		A sointi Buttur	There threat Carriers
Phone No. Transporter Ticket #	Phone N	C COMMON I	7	No. Constitute Constitute of
hereby certify that the above named material(s) was/were picket			the disposal facility list	Produced Formation Survivoled be
SHIPMENT DATE DRIVER'S	SIGNATURE	DELIVERY DATE	nipri datkéw tos	ER'S SIGNATURE
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IN: OUT: 1 Income matterforces if on the OUT: 1 Income a root of	The state of the s	The second secon	00	Spavoma: camovata
Site Name/	star from gathleting lines	* Figure Ware		fan Bonoms
Permit No. Halfway Facility / NM1-006 Address 6601 Hobbs Hwy US 62 / 180 Mile Mark	er 66 Carlshad, NM 88220 Phone N	575-392-6	368	man hours help a
NORM READINGS TAKEN? (Circle One)	new rice saesu result someduror ra	vas reading > 50 micro ro		ne) YES NO NO
PASS THE PAINT FILTER TEST? (Circle One)				* Fit shidges and contam
	TANK BOTTOM	S	such as hydrocarbons,	zienstem bereignstaß *
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hereby certify that the above load material has been (circle one)	ACCEPTED DENIED	If denied, why?		et Liquid bydroosings en stresm but not how oil
NAME (PRINT)	DATE	TITLE	and the state of t	SIGNATURE

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REQUIRED INFORMATION

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Na	am	e	9

The state of the s				
	GENE	RATOR	NO	HW- 735163
Generator Manifest #	bached	Location of Origin	Tole When Ya VX on	JVanBiS-00 lünit-
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	mmber II offsbore, provide the OOS		- Fravido the name of	Lease/Well Mame & No.
Address	et proyects the Freig name and Block	County	A GEAR AND HEAD AND A	Found of chicken Property
Chi. Chan. 7in	union lieu pasa saturu	API No.	upon and to alleg act.	Rio Mario C Mo Provide
City, State, Zip	octha Parchase Order (PO) number	Rig Name & No AFE/PO No	er the Authorization to	AFE/PO No - Provide eith
	/Service Identification and Amount		tuno in horralo or auhi	la vardal
Dil Based Muds	NON-INJECTABLE WATERS	tpiace volume next to waste	OTHER EXEMPT E&P \	
Oil Based Cuttings	Washout Water (Non-Injectable)			Mension stall - pailing
Water Based Muds Water Based Cuttings	Completion Fluid/Flow Back (Non-Injectory Produced Water (Non-Injectable)	table)		Initial Completion - Was
Produced Formation Solids The Sale 2010 Confession Produced Formation Solids	Gathering Line Water/Waste (Non-Inje	ectable)		
Tank Bottoms E&P Contaminated Soil	INTERNAL USE ONLY		TOP SOIL & CALICHE S	SALES
Gas Plant Waste	Truck Washout (exempt waste)	YES NO	QUANTITY	TOP SOIL CALICHE
WASTE GENERATION PROCESS: DRILLIN	G COMPLETION	☐ PRODUCTION	☐ GATH	HERING LINES
A DELECTION OF THE PERSON OF T	NON-EXEMPT E&P Waste/Se	ervice Identification and Amoun		VANDAGE OF THE PARTY OF THE PARTY OF
	te must be analysed and be below thresh	hold limits for toxicity (TCLP), Id	nitability, Corrosivity adn	
Non-Exempt Other	- 30	*please select	from Non-Exempt Wast	e List on back
DISPOSAL QUANTITY	B - BARRELS	L-LIQUID from towns ortific	Y-YARDS	Dedivors - parale - EACH II
hereby certify that the above listed material(s), is (are) not		Part 261 or any applicable state	law. That each waste has	s been properly described, classified and
ackaged, and is in proper condition for transportation according		ST 9220CIERD WITH ING WITCH	Hadders reinit Numb	WHE WO - DISCING WASSIS
RCRA EXEMPT: Oil field wastes grouper load basis only		nd production operation and are	e not mixed with non-exen	npt waste (R360 Accepts certifications on a
RCRA NON-EXEMPT: Oil field waste wh	nich is non-hazardous that does not exce	ed the minimum standards for	waste hazardous by chara	acteristics established in RCRA regulations,
9726 W 9823 7 graps 40 CFR 261.21-26	1.24, or listed hazardous waste as define	ed by 40 CFR, part 261, subpart	D, as amended. The follo	wing documentation demonstrating the
waste as non-nazion	ardous is attached. (Check the appropria	lazardous Waste Analysis	мэ По	ther (Provide Description Below)
- the fall P. Toyletty (TCT P Metals)		THE STATE OF THE S		, documentation of non-hazardous waste
	a description of the waste must accom			Off Shore Oil Board Drilling flu
w eog gov/gsw/hezerd/westelyges/characteristic him	ww	* Rigwash		Oil Brised Cuttings
(PRINT) AUTHORIZED AGENTS SIGNATURE	DA	THE RESERVE THE PERSON NAMED IN	SIGNAT	TURE
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ransporter's etaew grimasia seven priloco prelique alla collameno se hour sotto eta proportir de la collameno se hour sotto eta proportir de la collameno se hour sotto eta proportir de la collameno del collameno de la collameno della collameno de la coll	vices	Driver's Name	Stephen	Kolub gailling besit reteW .
ddress: saraw gmgaian sibem taildhear deann		Print Name	net / country	Security assessment of the said -
hone No. 36 stess bas seemed being standed		Phone No.	151	agains the base of sould in
ransporter Ticket #	abidFl	Truck No.	124	- Offshore Wester Desert outling
hereby certify that the above named material(s) was/were	picked up at the Generator's site listed a	above and delivered without ind		lity listed below.
SHIPMENT DATE DR	IVER'S SIGNATURE	DELIVERY DATE	BU	DRIVER'S SIGNATURE
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ite Name/ ermit No. Halfway Facility / NM1-00		Pam West	-392-6368	
ddress das and 6601 Hobbs Hwy US 62 / 180 Mile I		A UGGGSOATHO AURIG SOFT	STATIONAL SECTION OF	file to a common member skill a
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eceived	Illies of the sort of	HILL WILLIAM TO THE REAL PROPERTY AND THE PARTY AND THE PA	al Received	* Constituents (emerced Line put
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release territy that the above load material has been (circle	One, O Model LED 25	1 OIM	icu, wily:	en es lio moil inn his massite

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Company Man	Page 22 of 106 Contact Information
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Received by OCD: 4/15/20	225 8:12:25 AM NEW ME	EXICO NON-HAZARDOL	JS OILFIELD WASTI	E MANIFEST	Company Man Contact Information
R360 ENVIRONMENTAL SOLUTIONS		(PLEASE		IRED INFORMATION*	Name Heat Retz 198
Generator Manifest #		GENER	RATOR Location of Origin	int combbs acome N	0. HW- 735162
Generator Name Address		umber II offstore, growing a si provide the Finkl name an	Lease/Well		ParmityRRC No Provide of Lease/ Well Hume & No County - Provide the county - American County - Provide the American County - Provide the American County - Provide the American County - C
City, State, Zip Phone No.	redmur	umber and well name or the Fundress Order (FO) n	Rig Name & No. AFE/PO No.	ing rame of the drilling or the Authoritation for Eq.	Hig Mama & Mo. — Provide a Aug. — Provide antesa.
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Gas Plant Waste		/ashout (exempt waste)	YES NO	QUANTITY	TOP SOIL CALICHE
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCT		THERING LINES
All Non-Exempt Other	non-exempt E&P waste must b	NON-EXEMPT E&P Waste/Se e analysed and be below thresh	hold limits for toxicity (TCL	nount P), Ignitability, Corrosivity ac ect from Non-Exempt Wa	
DISPOSAL QUANTITY	R - R/	ARRELS 012		ft to mme (Y - YARDS) it	Oberns - provide « EACH II
EMERGENCY NON-OILFIELD	MSDS Information Emergency non-hazardous,		azardous Waste Analysis en ordered by the Departm	ent of Public Safety (the ord	Other (Provide Description Below) er, documentation of non-hazardous waste
(PRINT) AUTHORIZ	ED AGENTS SIGNATURE	DA	the Couling to the Country of the Co	SIGN	NATURE PRINTING TO THE PRINTIN
Transporter's Transporter's Transporter's Transporter Ticket #	Haston son pineur cc. 3 eirbens ottsen office, atnewer	TRANSF	Priver's Name Print Name Phone No. Truck No.	Stephen 1	Water Based Mud * Water Based Drilling mids Unamer Water Self Limiting in Water Bosed Courses Water Bosed Courses
hereby certify that the above named SHIPMENT DATE	material(s) was/were picked up		bove and delivered without	ut incident to the disposal fa	cility listed below. 188 Hoderman beaution
TRUCK TIME S	The same of the sa	DISPOSAL	FACILITY ROTTED OF THE PARTY OF		CEIVING AREA
	acility / NM1-006 wy US 62 / 180 Mile Marker 6		Phone No. mala and a support of the Wing	575-392-6368	Fank Bottoms Subsect sediment water and other from storage locifiles mat hold
	GS TAKEN? (Circle One) LTER TEST? (Circle One)			50 micro roentgents? (C	
Foot	lea	TANK BO	TTOMS		Accumulated materials such as solids, such and unufaren from solids.
st Guage Page Page Page Page Page Page Page P	Inc	hes discourse and the second second by a not be be been a not been been been been been been been bee	rassuming the materials	BBLS Received Free Water Total Received	BS&W (%)
hereby certify that the above load ma	aterial has been (circle one):	ACCEPTED OS	DENIED ACIU	denied, why?	The company and the company an

Released to Imaging: 6/23/2025/9:06:36 AM IAL Yellow-TRANSPORTER COPY Pink- GENERATOR SITE COPY Gold-RETURN TO GENERATOR

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Page 24 of 10 ompany Man Contact Information
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Name _	honr	BETT	all party

ENVIRONMENTAL SOLUTIONS	(PLEASE	PHINT) "REQUIREL	INFURIMATI	UN" Phon	e No.	Comp
GENERATOR NO. HW-7039461 Location of Origin Locat						
Generator Manifest #	reached	Location of origin	SUMOUX	nun Journ 135	Sucons	Phot
Generator Name						
Address	ill fine ar so bler had abivore a	AND DESCRIPTION OF THE PERSON	nich the wealth	he agenty at wi	ly - Provide 1	Coun
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	or the Fundass Order (Potrocho		of will desire the	artradia she	PO No Pro	MPEN
	ervice Identification and Amount (type in barrels	or cubic yards)	-	
Oil Based MudsN	ON-INJECTABLE WATERS		THE RESERVE THE PERSON NAMED IN		TREAMS	
Water Based Muds		able)	BUND	ALCOO.		
The state of the s		table)	oning the proc			
lank Bottoms		HE SALMEN MAN SECTION	TOP SOIL & CA	LICHE SALES	CONTRACTOR	
Gas Plant Waste Tr			QUANTITY	halle Statement	of Statement II	CALICHE
WASTE GENERATION PROCESS: DRILLING				GATHERING L	INES	
All non-exempt E&P waste r	NON-EXEMPT E&P Waste/Ser nust be analysed and be below thresh	vice Identification and Amount old limits for toxicity (TCLP), lgr	nitability Corrosiy	vity adn Reactivity		
	JE12	the state of the back of the state of the st				III811
DISPOSAL QUANTITY	B - BARRELS	L-LIQUIDING (Payment)	Y - YARDS	enion period	- amale - EA	ACH 1
hereby certify that the above listed material(s), is (are) not have	zardous waste as defined by 40 CFR Pa	art 261 or any applicable state I	aw. That each wa	aste has been pro	perly described	l, classified and
packaged, and is in proper condition for transportation according	ng to applicable regulation.					
	rated from on and gas exploration and	a production operation and are	not mixed with h	on-exempt waste	(noou Accepts	certifications on a
waste as non-hazard	lous is attached. (Check the appropriat	e items as provided)		_		
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	description of the waste must accomp	pany this form)	W Salety (ti	abioli andire		12 HD ¥
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hereby certify that the above hamed material(s) was/were pic	ked up at the Generator's site listed at	oove and delivered without inci	dent to the dispo	sai facility listed	below.	mught *
	THE RESERVE OF THE PERSON NAMED IN	-	0			ntorn_
	DISPOSAL			110	AREA	
IN: 0U1:	send growth		Name/No	texamon Of (Serios alminar	Tons
		Phone No. 575-	392-6368			
	rker 66 Carlsbad, NM 88220	noosaa beest-to-da	September 1	ultime Mod Tent re	string facilities	- tront
NORM READINGS TAKEN? (Circle One	e) YES NO	If YES, was reading > 50 r	micro roentgent	ts? (Circle One)	YES	NO
PASS THE PAINT FILTER TEST? (Circle One	e) (YES) NO	Musikas suga sengalah	woul s	emotion-between	a lessocute as ar	98448
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Received	the self-self-self-self-self-self-self-self-	Total	Received	Description of the	elba to hels to	nedi
hereby certify that the above load material has been (circle on	e): ACCEPTED D	ENIED If denie	ed, why?	10.	enormanentyn t	nond *.
NAME (PRINT)	DATE	TITLE		CICA	JATURE	milt e



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



February 12, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 013H

Enclosed are the results of analyses for samples received by the laboratory on 02/11/25 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: FS 01 4' (H250816-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2025	ND	201	100	200	2.86	
DRO >C10-C28*	255	10.0	02/12/2025	ND	204	102	200	2.19	
EXT DRO >C28-C36	86.7	10.0	02/12/2025	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: FS 02 4' (H250816-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2110	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2025	ND	201	100	200	2.86	
DRO >C10-C28*	26.3	10.0	02/12/2025	ND	204	102	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	02/12/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: FS 03 4' (H250816-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2025	ND	201	100	200	2.86	
DRO >C10-C28*	29.7	10.0	02/12/2025	ND	204	102	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	02/12/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: FS 04 4' (H250816-04)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2025	ND	201	100	200	2.86	
DRO >C10-C28*	<10.0	10.0	02/12/2025	ND	204	102	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	02/12/2025	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: FS 05 4' (H250816-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2025	ND	201	100	200	2.86	
DRO >C10-C28*	<10.0	10.0	02/12/2025	ND	204	102	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	02/12/2025	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558572 Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: FS 07 2' (H250816-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Sample Received By:

02/10/2025

Tamara Oldaker

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date:

Reported: 02/12/2025 Sampling Type: Soil
Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact

Project Location: XTO 32.18173-103.83361

03C1558572

Sample ID: FS 08 1' (H250816-07)

Project Number:

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	18						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558572 Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: FS 09 1' (H250816-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

Sample ID: SW 01 0-4' (H250816-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil Project Name: PLU CVX JV BS 013H Sampling Condition: Coo

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SW 02 0-4' (H250816-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/11/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/11/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558572 Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SW 03 0-1' (H250816-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/12/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/12/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/12/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	82.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/11/2025 Sampling Date: 02/10/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558572

Project Location: XTO 32.18173-103.83361

Sample ID: SW 04 0-1' (H250816-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2025	ND	1.88	94.1	2.00	0.783	
Toluene*	<0.050	0.050	02/12/2025	ND	1.93	96.6	2.00	0.879	
Ethylbenzene*	<0.050	0.050	02/12/2025	ND	1.95	97.5	2.00	0.759	
Total Xylenes*	<0.150	0.150	02/12/2025	ND	5.96	99.4	6.00	0.551	
Total BTEX	<0.300	0.300	02/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	6.00	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	202	101	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

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Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Dismages. Candinate's liability and claims from performance of the body of the control of the body of the redistrial or consequence and of or related to the performance of the control of the body of the control of the body of the control of the performance of the control of t	City: Carlsbad State	Project Manager: Ben Belill Address: 3122 National Parks Hwy
The exclusive remody for any plans fising whether based in contract or text shall be include to the amount paid by the charles to the applicable paid the provided in the amount paid by the charles to the applicable paid to the applicable paid the provided in the paid the paid to the applicable paid the paid to the applicable paid the paid to the paid the pai	State: NM Zip: 88220 Fax #: Project Owner: XTO 8S 013H Sample Depth (G)OMP. (G)RAB OR (C)OMP. WASTEWATER WASTEWATER SOIL OIL SLUDGE	-lwv
The remote the any claim alriang whether based in contract or fort, shall be limited to the amount paid by the clein for the age, including without installor, business interruption, loss of use, or loss of profits incoming by elect the subsidiaries. Received By: Received By: Cool inflagt Cool inflagt No CHECKED BY: Turnaround Time: Chermonetter ID ANS Character II Correction Factor II Correction Factor II Continuity Correction Factor II Continuity Continuity Continuity Continuity Continuity Cool inflagt Cool	Company: XTO Energy Inc. Attn: Colton Brown Address: 3104 E. Green St. City: Carlsbad State: NM Zip: 88220 Phone #: PRESERV. SAMPLING ACID/BASE: ACID/BASE: ACID/BASE: DATE TIME TIME TIME TIME TIME	BILL TO
Cost Center:1081011001	TPH CHLORIDE	
Mo Add'i Phone #: Please provide Email address: Thillard@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com ter:1081011001 Incident ID: NAPP2428842762 ttandard Bacteria (only) Sample Condition Cool Intact Observed Temp. *C No No Corrected Temp. *C	1	ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

10-3/11/2s

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Droinet Manager	The state of the s	BILLTO	
Ject Manager: Ben Belill	n Belill	1.	ANALYSIS REQUEST
Address: 3122 National Parks Hwy	onal Parks Hwy	7.0. ±	
city: Carlsbad	State-NM	Company: XTO Energy Inc.	
Phone #: 989-854-0852	7	Attn: Colton Brown	
Project #: 03C1558572		Address: 3104 E. Green St.	
Project Name: Pl	- 1		
ň	32.18173, -103.83361	State: NM Zip: 88220	
0	Dorman	Phone #:	
FOR LAB USE ONLY	Doillian	Fax #:	
	RS ER R	ESERV. SAMPLING	
Lab I.D. Sa	Sample I.D. Sample Depth (feet) G)RAB OR (C CONTAINER C	OIL IL LUDGE THER: CID/BASE: E/COOL THER: STEX PH HLORIDE	
12 ~		1 2/0/0/2	
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PLEASE NOTE: Liability and Damages. (analyses. All claims including those for ne	Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be line and to the	of in contract or toot, shall be line and to the	
Relinquished By:	This permitted in a serial pour of credited to the performance of services hereunder by Cardinal trade in writing and received by Cardinal within 30 days after completion of the a stilling out of credited to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Cardinal performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	Relinquished By: Data: Data:	
Relinguished Rv.	305	. 00	□No Add'l Phone #: Please provide Email address: Thillard@ensolum.com
	Date: Received By:	REMARKS:	ensolum.com, kt
Delivered By: (Circle One)		cost centrer: 1081071007	1011001 Incident ID: NAPP2428842762
Sampler - UPS - Bus - Other:	Corrected Temp "C A)	CHECKED BY: (Initials)	Bacteria (only) S
FORM-006 R 3.2 10/07/21		No V Correction Fester Office William	Yes



February 27, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 013H

Enclosed are the results of analyses for samples received by the laboratory on 02/25/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/25/2025 Sampling Date: 02/24/2025 Reported: 02/27/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: FS 06 A 3' (H251110-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2025	ND	1.97	98.6	2.00	1.29	
Toluene*	<0.050	0.050	02/26/2025	ND	2.00	99.9	2.00	1.02	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.90	94.8	2.00	0.927	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.61	93.5	6.00	0.947	
Total BTEX	<0.300	0.300	02/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2025	ND	209	105	200	1.64	
DRO >C10-C28*	<10.0	10.0	02/27/2025	ND	200	99.8	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	02/27/2025	ND					
Surrogate: 1-Chlorooctane	124 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



10	(675) 303-2326 FAX (575) 393-2476	FAX (575) 393-2476		ANALYSIS RECLIEST	'
Company Name:	Ensolum, LLC		BILLTO	-	
Project Manager: Ben Belill	en Belill		P.O. #:		
Address: 3122 National Parks Hwy	tional Parks Hw	У	Company: X I O Energy IIIC	, in the second	
city: Carlsbad		State: NM Zip: 88220	Attn: Colton Brown		
Phone #: 989-85	989-854-0852	Fax #:	Address		
Project #: 03C1558572	58572	Project Owner: XTO	10		_
ame:	PLU CVX JV BS 013H	013H	State: NM Zip: 88220		
ž.	32.18173, -103.83361	3361	Phone #:		
Seman Jesse Dorman	sse Dorman		1		
Sampler Name: 50		MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	(feet) Sample Depth (C)OMP. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL		BTEX TPH CHLORIDE	
) Income	£506A		7 56/1.076	850	
	8				
PLEASE NOTE: Liability and	Damages, Cardinal's liability and those for negligence and any of	PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the pLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to find a mount paid by the client for the applicable of the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the applicable in the arising and received by Cardinal within 30 days after completion of the arising and arising and arising and arising and arising and arising and arising arising and arising arising and arising arising arising and arising ar	in contract or tort, shall be limited to the amount paid by writing and received by Cardinal within 30 days after or writing and received by Cardinal within 30 days after or writing and received by clies or loss of profits incurred by clie	y the client for the smpletion of the applicable nt, its subsidiaries.	
service. In no event shall Card affiliates or successors arising Relinquished By:	e. In colour structure, and the liable for incidental or colour successors arising out of or related to the performation quils hed By:	Reflinquished By: Date: Bellinquished By: Bellin	such claim is based upon any of the above stated reas	It: □Yes 望No Add'l Phone #: ire emailed. Please provide Email address: tsolum.com TMorrissey@ensolum.com,	Thillard@ensolum.com kthomason@ensolum.com
Relinquished By		Date: Received By:	am ramas	REMARKS: Incident ID: NAPP2428842762 Cost Center: 1081011001	(28842762
0	rcle One)		Condition CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. Thermometer ID #413-# W Yes Yes No No No Corrected Temp.	ample Condition Observed Temp. °C Corrected Temp. °C
Sampler - UPS -	FORM-005 R 3.2 10/07/21	+ Cardinal cannot accept vei	Nd No Table Please email char	e. 2/25/25 @cardinallabsnm.com	
	100	† Cardinal cannot accept ver	Dai citaligue		

Page 4 of 4



APPENDIX D

January 2, 2025 Remediation Work Plan



January 2, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan PLU CVX JV BS 013H

Incident Number NAPP2428842762

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) to document the site assessment activities completed to date and propose a work plan to address waste-containing soil identified at the PLU CVX JV BS 013H (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of waste-containing soil resulting from a release of crude oil and produced water at the Site. The following *Work Plan* proposes to excavate waste-containing soil identified within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.18173°, -103.83361°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 11, 2024, corrosion on a production flow line resulted in the release of 10 barrels (bbls) of produced water and 2 bbls of crude oil onto a right-of-way (ROW) and into the adjacent pasture. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on October 14, 2024. The release was assigned Incident Number NAPP2428842762.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. In October 2020, a New Mexico Office of the State Engineer (NMOSE) permitted well (C-4478) was advanced to a depth of 110 feet bgs located approximately 0.5 miles north of the Site and is depicted on Figure 1. Depth to groundwater is documented to be 110 feet bgs. The Well Record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 6,285 feet northwest of the Site. The Site is greater than 200 feet from a lakebed,

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

XTO Energy, Inc. Remediation Work Plan PLU CVX JV BS 013H

sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel rang organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 31, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected eleven delineation soil samples (SS01 through SS11) within and around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

On November 27, 2024, Ensolum personnel returned to the Site to assess the vertical extent of the release. Delineation boreholes BH01 through BH03 were advanced in the approximate locations of SS01 through SS03, respectively. The delineation boreholes were advanced via handauger to a maximum depth of 1-foot bgs at BH01 through BH03 due to hand auger refusal. Discrete soil samples were collected from each borehole at a depth of 1-foot bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Soil samples from the boreholes were collected, handled and analyzed as described above at Cardinal in Hobbs, New Mexico. The soil sample locations are depicted on Figure 2.



XTO Energy, Inc. Remediation Work Plan PLU CVX JV BS 013H

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples SS01 through SS03 and BH01, collected at depths ranging from 0.5 feet to 1 foot bgs, indicated that chloride concentrations exceeded the reclamation requirement applied in the top 4 feet. The terminal depth sample from delineation boreholes SS02/BH02 and SS03/BH03, collected at 1 foot bgs, indicated concentrations of all COCs were compliant with the Closure Criteria and reclamation requirement and successfully defined the vertical extent of waste-containing soil. In addition, laboratory analytical results for delineation soil samples SS04 through SS11 collected outside of the release extent indicated concentrations of all COCs were compliant with the reclamation requirement and successfully defined the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 1,750 square foot area and extends to an approximate depth of 1-foot bgs. XTO proposes to complete the following remediation activities:

- Excavate waste-containing soil to a depth of approximately 1 foot bgs. Excavation will proceed
 laterally until sidewall samples confirm chloride concentrations are compliant with the Closure
 Criteria.
- XTO estimates approximately 130 cubic yards of waste-containing soil will be removed. The
 excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- Confirmation soil sampling of the floor and sidewall of the excavation will be completed at a sampling frequency not to exceed 200 square feet in area. The confirmation soil samples will be handled as described above and analyzed for all COCs.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

XTO will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Uriel Santillana Associate Scientist Tacoma Morrissey, MS Associate Principal



XTO Energy, Inc. Remediation Work Plan PLU CVX JV BS 013H

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Figure 3 Proposed Excavation Map
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

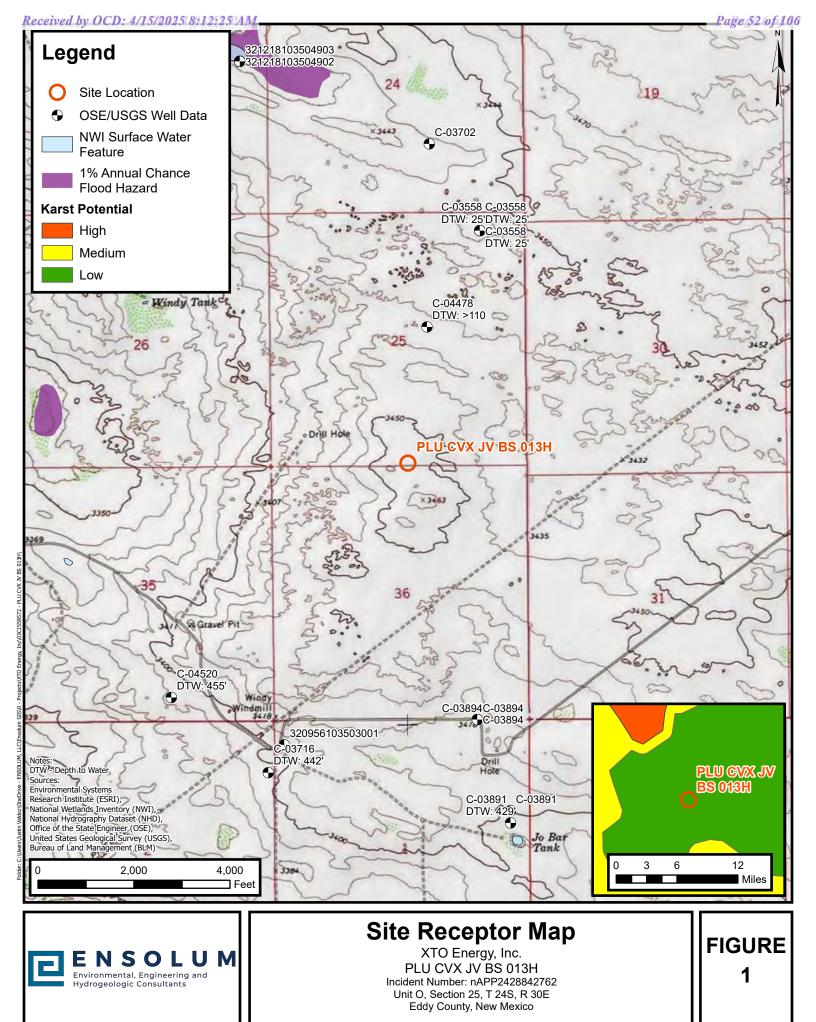
Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

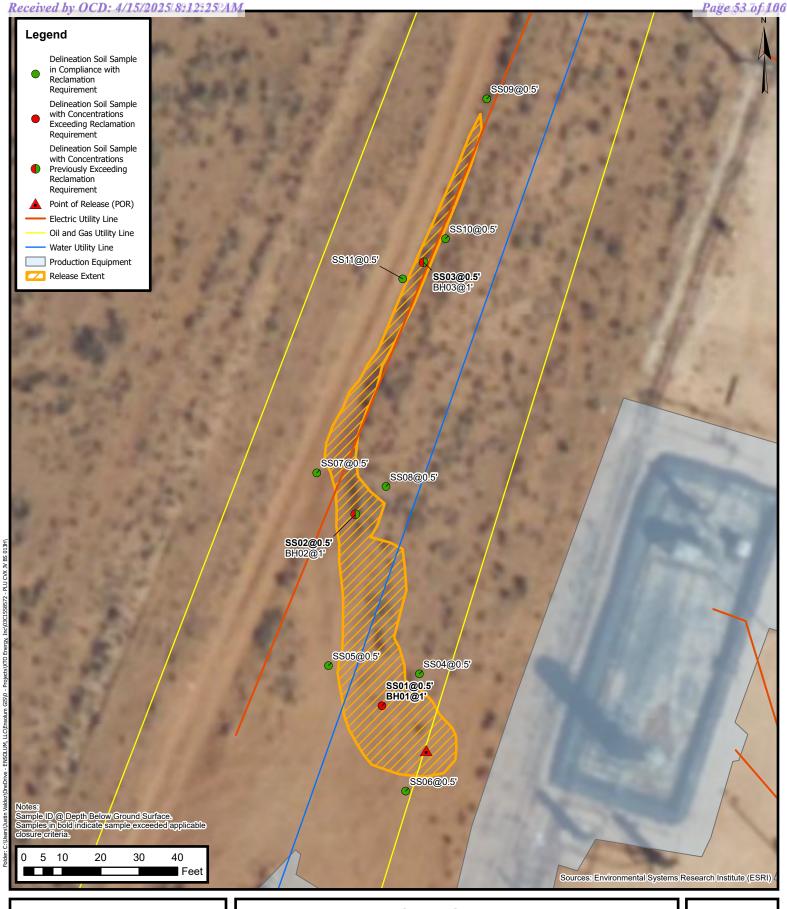




FIGURES



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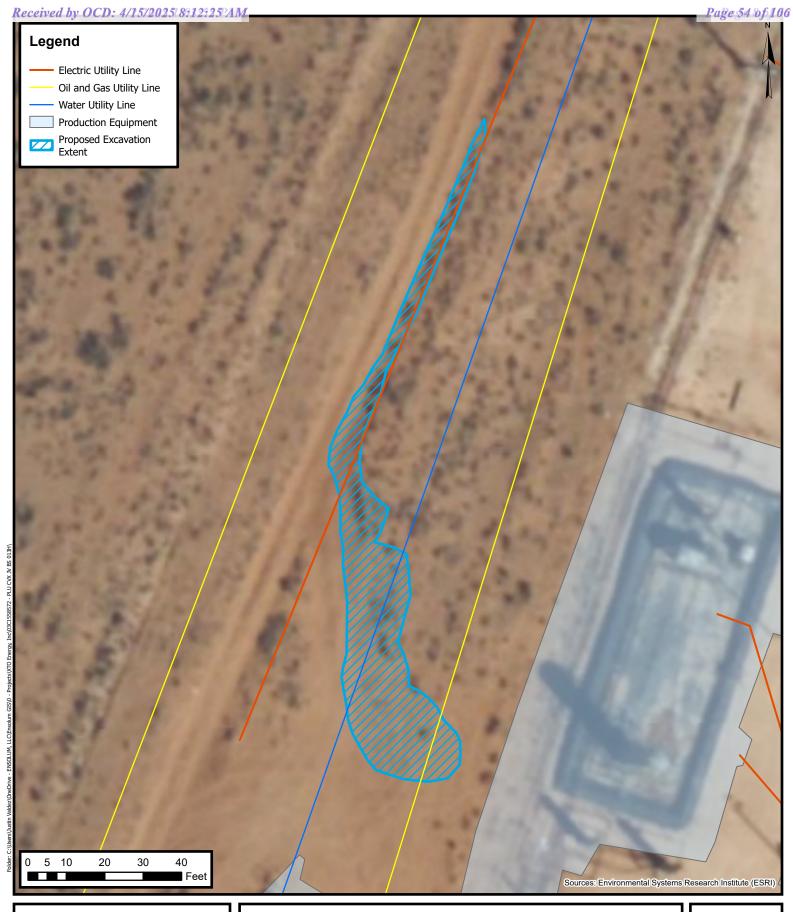




Delineation Soil Sample Locations

XTO Energy, Inc.
PLU CVX JV BS 013H
Incident Number: nAPP2428842762
Unit O, Section 25, T 24S, R 30E
Eddy County, New Mexico

FIGURE 2





Proposed Excavation Area

XTO Energy, Inc. PLU CVX JV BS 013H Incident Number: nAPP2428842762 Unit O, Section 25, T 24S, R 30E Eddy County, New Mexico FIGURE 3

Released to Imaging: 6/23/2025 9:06:36 AM



TABLES

Received by OCD: 4/15/2025 8:12525 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU CVX JV BS 013H / Incident Number nAPP2428842762 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delinea	tion Soil Sampl	es				
SS01	10/31/2024	0.5	<0.050	<0.300	<10.0	25.6	<10.0	25.6	25.6	8,780
BH01	11/27/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420
SS02	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640
BH02	11/27/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	10/31/2024	0.5	<0.050	<0.300	<10.0	67.5	12.6	67.5	80.1	4,000
BH03	11/27/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS05	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS07	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS11	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

5	,
1	
-	

ATION	OSE POD NO POD1 (B) WELL OWNE	H-01) ER NAM	TE(S)		·	well tag id n n/a	iO.		OSE FILE NO C-4478 PHONE (OPT				ဥ	Same of gr
ELL LOC	WELL OWNE 6401 Holid	ER MAII	LING	ADDRESS					CITY Midland	-	sī T	rate X	79707	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GP	-		TUDE	GREES 32° -103°	MINUTES 11' 49'	22	onds 2.57" N	┥	Y REQUIRED: ONI		OF A SEC	COND	
1. GENE	DESCRIPTION SW SE NE		ATINO	GITUDE WELL LOCATION TO 24S R30E	STREET ADD	RESS AND COMM			.ss (section, to	OWNSHJIP, RANG	E) WHERE	3 AVAIL	ABLE	
	LICENSE NO			NAME OF LICENSED		Jackie D. Atkir	ns			NAME OF WEI			MPANY ssociates, I	nc.
	DRILLING ST)	DRILLING ENDED 10/07/2020		MPLETED WELL rary well mate		BORE H	OLE DEPTH (FT) 110			n/a		
N.C	COMPLETE	O WELL	IS:	ARTESIAN	DRY HOI	LE SHALI	LOW (UN	CONFINED)		STATIC WATE	IR LEVEL	in com n/a	PLETED WE	LL (FT)
IATIO	DRILLING FI			✓ AIR	MUD .		TVES – SF					a		
ORN	DRILLING M			ROTARY	HAMMEI	R CABLI	E TOOL	OTH	ER - SPECIFY:		Hollow	Stem A	Auger	
2. DRILLING & CASING INFORMATION	DEPTH FROM		gl) O	BORE HOLE DIAM (inches)	(include	MATERIAL Al GRADE each casing strin sections of scree	ıg, and	CON	CASING INECTION TYPE upling diameter)	CASING INSIDE DIA (inches)	AM.	THIC	G WALL KNESS ches)	SLOT SIZE (inches)
& CA	0	11	10	±8.5		Boring- HSA		(444 601						
ING														<u> </u>
RILL				<u> </u>				+						
2. DJ														-
										<u> </u>				
														ļ
				1							+			<u> </u>
										<u> </u>				
	DEPTH	(feet b	gl)	BORE HOLE	Li	ST ANNULAR	SEAL M	IATERIAL	AND	AMOL	INT		метно	
IIAL	FROM	Т	o	DIAM. (inches)	GRA	VEL PACK SIZ	ZE-RAN	GE BY IN	TERVAL	(cubic	feet)		PLACEN	MENT
VTER					<u> </u>						.			
ANNULAR MATERIAL										-		+		
ULA	-									-				
ANN														
8					<u> </u>							_		
	l			<u> </u>	J									
	OSE ASTER	NAL I	JSE	8		POD	NO. 1			NO. C		OG (V	ersion 06/3	W17)
-	cation 2	45	<u>ب</u> نهد،	30€-2°	5	9-3-3	_		WELL TAG				PAGE	1 OF 2

			····					
	DEPTH (i	reet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	3	WAT BEARI (YES /	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
į	0	3	3	Sand, fine-grained, poorly-graded, Red-Brown		Y	√ N	,
	3	5	2	Gravel, 20-30 mil, well graded, little clay		Y	√ N	
	5	13	8	Caliche with some gravel (5-20 mil.) Tan/ Brown		Y	√N	
	13	24	9	Sand, fine-grained, well-graded some silt, Tan/ Red	1	Y	√N	
	24	34	10	Sand, Medium-grained, well-graded some silt, Tan/ Red		Y	√N	
ادا	34	44	10	Sand, Large-grained, well-graded some silt, Dark Brown		Y	√N	
VEL	44	110	66	Sand, fine-grained, well-graded, some clay, moist, caliche fragments Red/B	Brown	Y	√N	
OF V						Y	N	
HYDROGEOLOGIC LOG OF WELL						Y	N	
נכר						Y	N	
Đơ'			······································			Y	ΝŜ	1.5
EOI						Y	N.	1
503					\dashv	Y	N	
					$-\dagger$	Y	N.	
4. H					_		N	visiti
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				 		Y	- 17	3
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	METHOD II	SED TO ES	TIMATE VIELD	OF WATER-BEARING STRATA:	TOTA	L ESTIM		
	_	_	IR LIFT			L YIELD		0.00
	PUMI		IK LIFI _	BAILER OTHER - SPECIFY:				
VISION	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE				
VIS	MISCELLA	NEOUS INF	ORMATION: T	emporary well materials removed and the soil boring backfilled usin	o drill	cuttings	from tot	al denth to ten
TEST; RIG SUPERV			fe	et below ground surface, then hydrated bentonite chips from ten feet				
c sr			Lo	ogs adapted from LTE on-site geologist.				
, <u>R</u>								
LEST	PRINT NAM	E(S) OF DI	RILL RIG SUPER	EVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	STRUC	TION OI	THER TH	AN LICENSEE:
5.1	Shane Eldric							
	THE UNDE	RSIGNED H	IEREBY CERTII	TES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL	EF, TH	E FORE	GOING I	S A TRUE AND
RE	CORRECT I	RECORD O	F THE ABOVE I	DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R TO DAYS AFTER COMPLETION OF WELL DRILLING:	ECORI	HTIW O	THE STA	ATE ENGINEER
ATI	AND IIILI	Diamir IIO	DDDK WIIIIK	NO DATE OF THE COMMEDITION OF WELL DIGITALISM.				
SIGNATURE	Jack K	Atkins		Jackie D. Atkins		10/26	/2020	
6.8	0	CICNAT	IDE OF DRILLE	DD / DDINT CIGNIC NAME			DATE	
		DIUNAI	OVE OL DKITTE	R / PRINT SIGNEE NAME			PVIE	
FOR	OSE INTERI	NAL USE		WR-20 WEI	L REC	ORD & I	LOG (Ver	sion 06/30/2017)
FIL	E NO.(<u> </u>	$\square X$	POD NO. \ TRN NO.	<u>:</u>	783	282	<u> </u>
LOC	CATION ~	ാപട	-50F	~ 3		1		PAGE 2 OF 2

2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign

Final Audit Report

2020-10-27

Created:

2020-10-27

Ву:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAAESGKFRG9AU3NcytvOCSRntC1Y-zTs43Y

"2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsig n" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-27 3:14:03 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-27 3:14:17 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-27 3:21:12 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2020-10-27 3:22:09 PM GMT Time Source: server- IP address: 74.50.153.115
- Agreement completed.
 2020-10-27 3:22:09 PM GMT

🝌 Adobe Sign



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
PLU CVX JV BS 013H
Incident Number: nAPP2428842762



Photograph 1 Date:10/31/2024

Description: Site assessment on ROW.

View: North

Photograph 2 Date: 10/31/2024

Description: Site assessment on ROW.

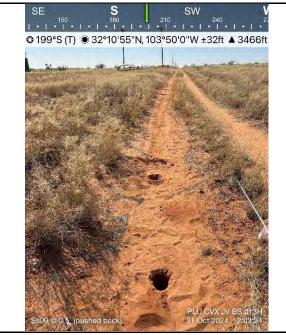
View: West



Photograph 3 Date: 10/31/2024

Description: Site assessment on ROW.

View: North



Photograph 4 Date: 10/31/2024

Description: Site assessment on ROW.

View: South



Photographic Log
XTO Energy, Inc
PLU CVX JV BS 013H
Incident Number: nAPP2428842762





Photograph 5 Date: 10/31/2024

Description: Site assessment on ROW.

View: Northeast

Photograph 6 Date: 11/27/2024

Description: Vertical delineations on ROW.

View: South





Photograph 7

Date: 11/27/2024

Photograph 8 Date: 11/27/2024

Description: Vertical delineations on ROW.

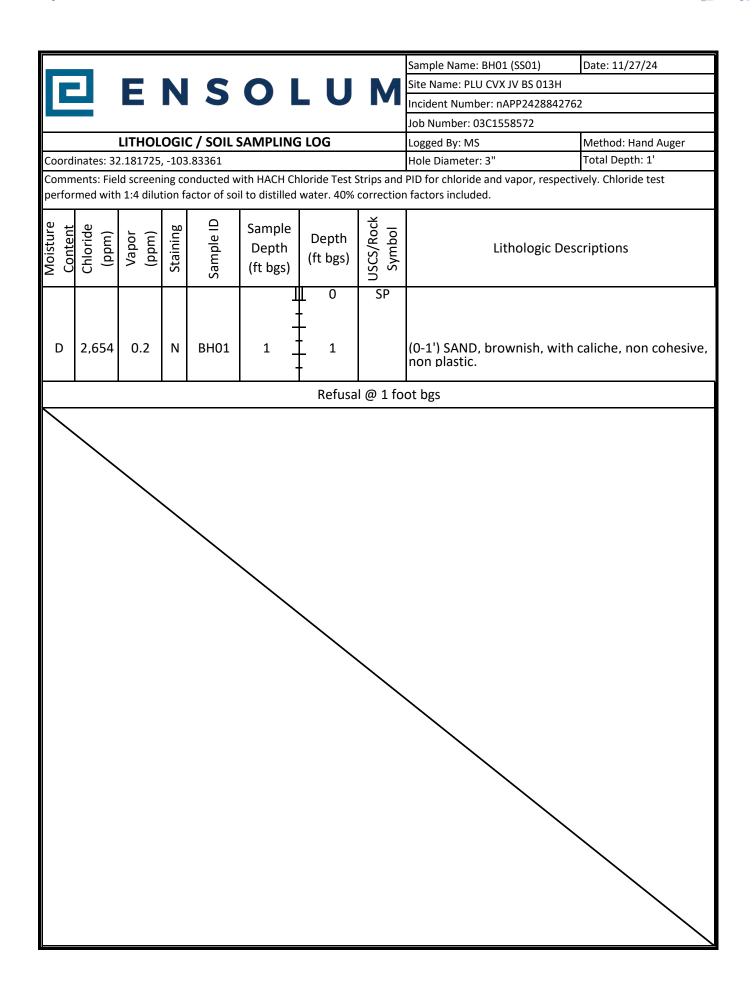
Description: Vertical delineations on ROW.

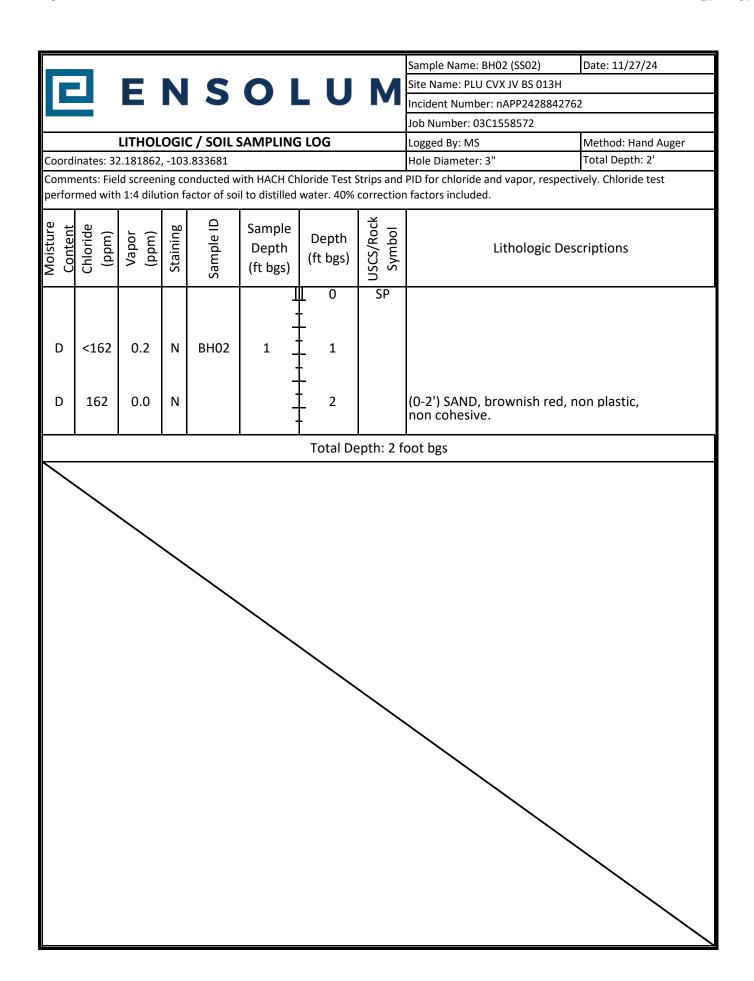
View: South View: South

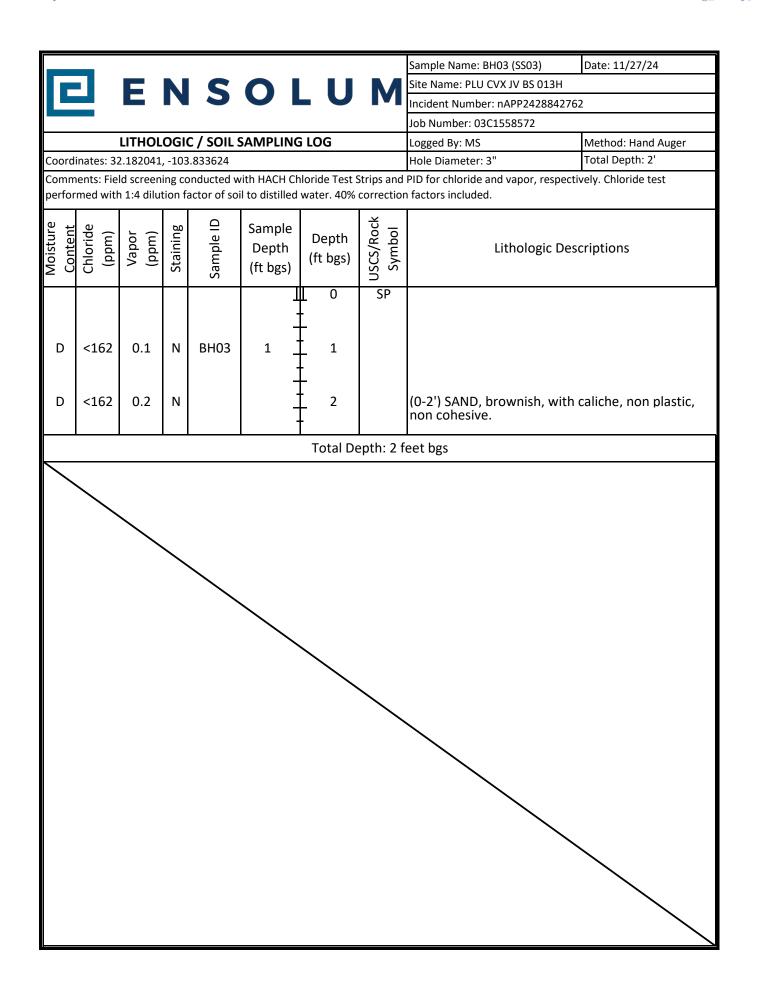


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



November 05, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 013H

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SS 04 (H246679-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.18173-103.83361

mg/kg

Sample ID: SS 05 (H246679-02)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.18173-103.83361

mg/kg

Sample ID: SS 06 (H246679-03)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Kreine



Tamara Oldaker

Sample Received By:

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil
Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact

Project Location: XTO 32.18173-103.83361

03C1558572

Sample ID: SS 07 (H246679-04)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.18173-103.83361

mg/kg

Sample ID: SS 08 (H246679-05)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.18173-103.83361

mg/kg

Sample ID: SS 09 (H246679-06)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558572

Project Location: XTO 32.18173-103.83361

Sample ID: SS 10 (H246679-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: SS 11 (H246679-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/02/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-232	nd, Hobbs, NM 88 6 FAX (575) 393-2	476					Т		BIL	_	0				ANAL	YSIS F	REQU	EST					Page
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hone #: 989-854-0	852									rlsbad														
roject #:	03C1558572						_	-	ate:			88220												- 1
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roject Location:	32.18173, -103.83361						_	_	x #:		_	/		Н										- 1
Sampler Name:	Uriel Santillana					MAT	DIY	1 0		SERV.	7	SAMPLIN	G	L										
CR LAB USE ONLY						1	TT	T			X			0										
	Sample I.D		(G)RAB OR (C)OMP	# CONTAINERS	BROUNDWATER	WASTEWATER	OIL	THER:	ACID/BASE:	ICE / COOL OTHER:		DATE	TIME	R I D E S	T P H	B T E								
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PLEASE NOTE: Liability and Dam applicable service. In no event	ages. Cardinal's liability and client's exclusive remedy fi shall Cardinal be liable for incidental or conseq out of or related to the performance of services	or any claim arising whether based in- uental damages, including without	ut limitat	ion, bus	ness int	erruptions, is based up	loss of use on any of t	or loss he abov	of profit e stated	reasons or	by client otherwi	, its subsidiaries se.												
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November 05, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 013H

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 11/01/2024
 Sampling Date:
 10/31/2024

 Reported:
 11/05/2024
 Sampling Type:
 Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SS 01 (H246680-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	11/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	25.6	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: Sampling Type: Soil 11/05/2024

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558572 Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SS 02 (H246680-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	11/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/01/2024 Sampling Date: 10/31/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558572 Tamara Oldaker

Project Location: XTO 32.18173-103.83361

Sample ID: SS 03 (H246680-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.05	103	2.00	1.09	
Toluene*	<0.050	0.050	11/02/2024	ND	2.18	109	2.00	5.34	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.27	114	2.00	7.31	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.68	111	6.00	6.78	
Total BTEX	<0.300	0.300	11/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	11/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2024	ND	212	106	200	3.53	
DRO >C10-C28*	67.5	10.0	11/02/2024	ND	228	114	200	1.45	
EXT DRO >C28-C36	12.6	10.0	11/02/2024	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

REMARKS: Cost center: 1081011001

Thermometer ID #140

Correction Factor _ D,6 C

Incident ID: NAPP2428842762

Yes Yes

No No Corrected Temp. "C

Bacteria (only) Sample Condition

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Pag 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 ANALYSIS REQUEST BILL TO Company Name: Ensolum P.O. #: Project manager: Ben Belill Company: XTO Energy Address: 3122 National Parks Hwy Attn: Colton Brown ZIP: 88220 State: NM City: Carlsbad Address: 3104 E Greene st. Phone #: 989-854-0852 City: Carlsbad Project #: 03C1558572 Zip: 88220 State: PLU CVX JV BS 013H Project Name: C Phone #: 32.18173, -103.83361 Project Location: H Fax #: Sampler Name: **Uriel Santillana** SAMPLING PRESERV. MATRIX FOR LAB USE ONLY 0 Lab I.D. R (G)RAB OR (C)OMP SROUNDWATER # CONTAINERS VASTEWATER Sample I.D. D ICE / COOL OTHER: E P E X S DATE TIME 950 10/31/24 1 5501 955 1105 1 ount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unli EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the annual contract or plicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, lliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise Verbal Result: ☐ Yes ☐ No Add'I Phone #: Received By bbelill@ensolum.com tmorrissey@ensolum.com kthomason@ensolum.com usantillana@ensolum.com lelinquished By: 200 Released to Imaging: 6/23/2025

CHECKED BY:

FORM-006 R 3.2 10/07/21

telinquished By:

OCD.

lelivered By: (Circle One)

ampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Tres Tres

No No

Received By:

Date:

Time:

Observed Temp. °C

Corrected Temp. °C



December 04, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 013H

Enclosed are the results of analyses for samples received by the laboratory on 12/02/24 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/02/2024 Sampling Date: 11/27/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.18173-103.83361

Sample ID: BH01 1' (H247299-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	12/03/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/02/2024 Sampling Date: 11/27/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: BH02 1' (H247299-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/02/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/02/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/02/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/03/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 12/02/2024 Sampling Date: 11/27/2024

Reported: 12/04/2024 Sampling Type: Soil

Project Name: PLU CVX JV BS 013H Sampling Condition: Cool & Intact
Project Number: 03C1558572 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.18173-103.83361

ma/ka

Sample ID: BH03 1' (H247299-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2024	ND	2.21	111	2.00	5.42	
Toluene*	<0.050	0.050	12/03/2024	ND	2.28	114	2.00	4.01	
Ethylbenzene*	<0.050	0.050	12/03/2024	ND	2.23	111	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/03/2024	ND	6.97	116	6.00	3.18	
Total BTEX	<0.300	0.300	12/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/03/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2024	ND	184	91.9	200	2.40	
DRO >C10-C28*	<10.0	10.0	12/03/2024	ND	170	85.2	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	12/03/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Page 6 of 6



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	e: Ensolum, LLC							П		B	W	410					ΔN	ALYS	IS D	EOU	ЕСТ		
Project Manage	er: Ben Belill							1	P.O. #:			Т				T	13 K				T		
Address: 3122	National Parks Hwy								Com	panv:	V	TO EN	e Call	1	1								
City: Carlsbad		State: NM	Zi	p: 8	822	0			Attn:	(0)	4	on BI	aula	1									
Phone #: 989	1-854-0850	₹ Fax #:							Addr	ess:	31	DHE	Greens										
Project #: 03	L1558572	Project Own	er:						City:	(al	7/5	Sbad	DIEENS	1							1		- 1
Project Name:	PLUCUX IV	85013H						-	State	:NM	1	Zip: 88	2220	1									
Project Location	n: 32.18/73,-	103 8336	5/										3-2340	1					1				
Sampler Name:	Mario sar	15.5							ax #			0 10	- 4-10	1									
FOR LAB USE ONLY			Τ.	Т	Г	MA	TRIX		PF	RESER	V.	SAME	PLING	1		M	- 1						
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OME	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	O'UEN.	DATE	TIME	BTEX	HOL	Chlorides							
2	BHOI)	6	1		V	1		1	V	1)	1/27/24	1018	V	1	1							
	BHOZ MS	2	G	1	L	V		1	\perp	1	1		1023	/	/	V							
2	PILO 3	4	6	Ħ	F	1		+	+	V	ŧ	-	1025	١,	,	,		_					
	BH03 MS	2	0	1	Н	V		+	+	V	+	1	1028	/	V	V	_	-	-				
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	d Damages. Cardinal's liability and clie g those for neglicence and any other								T		t						+	1		1		+	-

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By: Relinquished By:	Date: Receiv	yed By:	ldos MC	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: belinensolum.com/ Kthomfseneensolum.com/msarkisee REMARKS: Incident: nAPP 2428842762
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.5	Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Thermometer ID ##43 # 40 Correction Factor - 0\text{\text{C}}C \q

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 416443

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428842762
Incident Name	NAPP2428842762 PLU CVX JV BS 013H @ 30-015-39018
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-39018] POKER LAKE UNIT CVX JV BS #005H

Location of Release Source					
Please answer all the questions in this group.					
Site Name	PLU CVX JV BS 013H				
Date Release Discovered	10/11/2024				
Surface Owner	Federal				

Incident Details	Incident Details				
Please answer all the questions in this group.					
Incident Type	Release Other				
Did this release result in a fire or is the result of a fire	No				
Did this release result in any injuries	No				
Has this release reached or does it have a reasonable probability of reaching a watercourse	No				
Has this release endangered or does it have a reasonable probability of endangering public health	No				
Has this release substantially damaged or will it substantially damage property or the environment	No				
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No				

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 416443

QUESTIONS (continued)

Operator:	OGRID: 5380				
XTO ENERGY, INC 6401 Holiday Hill Road	Action Number:				
Midland, TX 79707	416443				
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Nature and Volume of Release (continued)					
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.				
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No				
Reasons why this would be considered a submission for a notification of a major release	Unavailable.				
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.				
Initial Response					
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury				
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.				
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or				
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/02/2025				

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 416443

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

B 11 41 B1					
Remediation Plan					
Please answer all the questions tha	at apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.			
Requesting a remediation p	lan approval with this submission	Yes			
Attach a comprehensive report dem	constrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.			
Have the lateral and vertical	extents of contamination been fully delineated	Yes			
Was this release entirely co	ntained within a lined containment area	No			
Soil Contamination Sampling:	(Provide the highest observable value for each, in mi	lligrams per kilograms.)			
Chloride	(EPA 300.0 or SM4500 CI B)	8780			
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	80.1			
GRO+DRO	(EPA SW-846 Method 8015M)	67.5			
BTEX	(EPA SW-846 Method 8021B or 8260B)	0			
Benzene	(EPA SW-846 Method 8021B or 8260B)	0			
	MAC unless the site characterization report includes completed lines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC			
On what estimated date will	the remediation commence	10/11/2024			
On what date will (or did) the	e final sampling or liner inspection occur	03/03/2025			
On what date will (or was) the	ne remediation complete(d)	03/03/2025			
What is the estimated surface	ce area (in square feet) that will be reclaimed	1750			
What is the estimated volum	e (in cubic yards) that will be reclaimed	130			
What is the estimated surface	ce area (in square feet) that will be remediated	1750			
What is the estimated volume (in cubic yards) that will be remediated 130					
These estimated dates and measure	ements are recognized to be the best guess or calculation at th	e time of submission and may (be) change(d) over time as more remediation efforts are completed.			
the OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to					

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 416443

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com

Date: 01/02/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 416443

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 416443

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	405368	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/27/2024	
What was the (estimated) number of samples that were to be gathered	18	
What was the sampling surface area in square feet	3600	

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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

CONDITIONS

Action 416443

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	416443
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved with the following conditions; 1. Excavated soils must have its disposition at an OCD approved facility and manifest included within the final remediation closure report. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, XTO must collect a minimum of one five-point composite from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top 4 feet from the ground surface. 3. XTO has 90-days (April 15, 2025) to submit to OCD its appropriate or final remediation closure report.	1/15/2025

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

QUESTIONS

Action 451979

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	451979
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428842762
Incident Name	NAPP2428842762 PLU CVX JV BS 013H @ 30-015-39018
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39018] POKER LAKE UNIT CVX JV BS #005H
Incident Facility	[fAPP2123047138] BIG SINKS 25 1

Location of Release Source		
Please answer all the questions in this group.		
Site Name	PLU CVX JV BS 013H	
Date Release Discovered	10/11/2024	
Surface Owner	Federal	

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 451979

QUESTIONS (continued)	
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 451979 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	of the borned that would roull in injury
The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com

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

QUESTIONS, Page 3

Action 451979

QUESTIONS (continued)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminat	ion associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in	milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	8780
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	80.1
GRO+DRO (EPA SW-846 Method 8015M)	67.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comple which includes the anticipated timelines for beginning and completing the remediation.	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation commence	10/11/2024
On what date will (or did) the final sampling or liner inspection occur	03/03/2025
On what date will (or was) the remediation complete(d)	03/03/2025
What is the estimated surface area (in square feet) that will be reclaimed	1750
What is the estimated volume (in cubic yards) that will be reclaimed	130
What is the estimated surface area (in square feet) that will be remediated	1750
What is the estimated volume (in cubic yards) that will be remediated 130	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 451979

QUESTIONS (continued)

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	451979
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 04/15/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 451979

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	451979
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 451979

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	451979
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	435875
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/05/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1790
What was the total volume (cubic yards) remediated	240
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1790
What was the total volume (in cubic yards) reclaimed	240
Summarize any additional remediation activities not included by answers (above)	"Excavation activities were conducted at the Site as indicated in the Work Plan to address the October 11, 2024 release of crude oil and produced water. The approved Work Plan report is provided in Appendix D. Laboratory analytical results for the final excavation soil samples collected indicate all COC concentrations were compliant with the Closure Criteria and reclamation requirement, where applicable. Based on the soil sample laboratory analytical results, no further remediation is required. The excavated area will be backfilled with material purchased locally and the Site recontoured to match pre-existing Site conditions. The area will be reseeded with an approved BLM seed mixture and monitored for vegetation regrowth. Excavation of soil has mitigated impacts to soil exceeding the Closure Criteria and reclamation requirement at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2428842762."

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 (in .pdf format) 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.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 04/15/2025

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

QUESTIONS, Page 7

Action 451979

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	451979
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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

CONDITIONS

Action 451979

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	451979
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	6/23/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/23/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/23/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/23/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/23/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/23/2025