

April 30, 2025

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

James Ranch Unit DI 1A Battery Incident Number NAPP2421529493 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* for the James Ranch Unit DI 1A Battery (Site). This *Closure Request* includes the additional information requested in a denial by the New Mexico Oil Conservation Division (NMOCD) of a previously submitted *Deferral Request* submitted on January 27, 2025. In the denial, NMOCD expressed concern that the potential high karst designation of the Site posed an imminent risk to groundwater. As such, NMOCD requested a karst survey and an evaluation of the soil type and review of safe excavation distances. XTO is providing the additional information requested by NMOCD and, after evaluation of that information, requesting no further action for Incident Number NAPP2421529493.

BACKGROUND

The Site is located in Unit A, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.37996°, -103.88669°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 26, 2024, a corrosion on a 4-inch tester joint resulted in the release of 15 barrels (bbls) of produced water onto the pad surface adjacent to and underneath active production equipment and surface lines. No fluids were recovered. XTO reported the release to the NMOCD on August 9, 2024, and the release was assigned Incident Number NAPP2421529493.

Ensolum conducted delineation soil sampling within and around the release extent and results were presented in a *Remediation Work Plan* (*Work Plan*) submitted to the NMOCD on October 24, 2024. The *Work Plan* proposed excavation of an estimated 300 cubic yards of impacted soil and confirmation soil sampling. The *Work Plan* was approved by the NMOCD on October 29, 2024, with no conditions of approval.

The *Work Plan* detailed Site characterization according to 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). The Site characterization results were included in the previously submitted *Deferral Request* prepared for Incident Number NAPP2421529493. The *Deferral Request* report, which includes a copy of the *Work Plan*, is included in Appendix A. Based on the results of the Site characterization, the following NMOCD Table I Closure Criteria applied:

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XTO Energy, Inc Closure Request James Ranch Unit DI 1A Battery

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

As documented in the *Deferral Request*, impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results and in accordance with the approved *Work Plan*. Following removal of impacted soil to the maximum extent practicable (MEP), Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The final excavation extent measured approximately 3,540 square feet. A total of approximately 300 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal and Landfill in Hobbs, New Mexico. One confirmation soil sample, CS01, was collected from a depth of 0.5 feet bgs from an area inaccessible due to active production equipment. Laboratory analytical results for CS01 indicated a chloride concentration that exceeded the Closure Criteria. Lateral delineation of the residual impacted soil was defined by delineation soil samples SS03 through SS08. Vertical delineation of residual impacted soil was defined by delineation soil samples PH01 and PH02 at 2 feet bgs. An estimated area of impacted soil left in place immediately adjacent to or below active production equipment measured approximately 100 square feet and a total of approximately 7.5 cubic yards of impacted soil remained in place.

On January 31, 2025, NMOCD denied the *Deferral Request* for Incident Number NAPP2421529493 for the following reasons:

Deferral denied. Pursuant to 19.15.29.12(C)22 NMAC, a deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or groundwater.

This site is located in a high karst potential occurrence zone and OCD has recently reevaluated karst potential zones and will not approve deferrals in these areas as high karst may cause an imminent risk to groundwater. The operator may choose to have karst surveys performed by a BLM approved karst/cave contractor, to determine if karst features are present at the site. A desktop survey, aerial/pedestrian survey, AND a geophysical survey must be performed. If no karst features are located during any of the surveys AND the geophysical survey shows no other indications of unstable ground, the closure criteria can be based on Table 1 Closure Criteria found in 19.15.29 NMAC.

Sites located on BLM or State Land Office (SLO) owned surface will need surface owner approval.

A certified civil engineer will need to evaluate the soil type and provide the minimum distance the excavation(s) needs to be from the tanks and how deep the excavation(s) can be prior to requesting a deferral. This document must be stamped by the engineer. Submit updated deferral request or remediation closure request to the OCD by 5/1/25.

What follows is a summary of the investigations conducted to acquire the new information and a subsequent request for no further action at the Site based on the findings of the karst investigation.

XTO Energy, Inc Closure Request James Ranch Unit DI 1A Battery

ENGINEERING REVIEW

The Site was assessed by a person trained in Occupational Safety and Health Administration (OSHA) excavation and trench safety (Competent Person) under the consultation of a Registered Professional Engineer (RPE) licensed in the State of New Mexico. Soil type C was observed in the inaccessible area, a 12-foot by 9-foot section directly adjacent to and beneath active production equipment. Immediately adjacent to the deferred soil is an engineered separator and an engineered pipe rack.

Based on the Site conditions and following OSHA Excavation Standards, the RPE recommendation indicates excavation should not be completed within 18 feet of the edge of the separator or within 6 feet of the edge of the pipe rack. As such, the excavation extent completed to date, originally presented in the *Deferral Request*, includes the existing excavation sidewall which was already within that minimum distance, and based on the engineering calculations, the excavation should not be extended closer to the equipment or made deeper while maintaining the safety of all onsite personnel and the structural integrity of the active production equipment as determined by the RPE.

A detailed description of the review and calculations is included in the *Excavation Guidance Document* in Appendix B. The *Excavation Guidance Document* is stamped by an RPE licensed in the state of New Mexico.

KARST SURVEY RESULTS

Southwest Geophysical Consulting, a BLM-approved third-party cave/karst contractor, conducted a desktop survey, aerial survey, and geophysical survey of the Site. In summary, no surface karst features within the 200-foot survey area surrounding the release extent were identified in the desktop or surface karst surveys. Results of the geophysical study indicated a well-layered geologic system is present beneath the Site with no anomalies in the data that would be consistent with air-filled subsurface voids or a pathway to groundwater, which was confirmed to be greater than 110 feet bgs in a dry boring advanced approximately 1,000 feet from the Site.

Based on the results of the karst survey, a lack of sensitive receptors near the Site, and groundwater documented to be greater than 100 feet bgs, XTO proposes application of the following revised Closure Criteria, deemed appropriate based on new information obtained for this report:

Benzene: 10 mg/kgBTEX: 50 mg/kg

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

TPH: 2,500 mg/kg

• Chloride: 20,000 mg/kg

The detailed report provided by Southwest Geophysical Consulting is included in Appendix C.

XTO Energy, Inc Closure Request James Ranch Unit DI 1A Battery

CLOSURE REQUEST

The results of the karst survey confirm there is no imminent risk to groundwater at the Site based on the absence of any visible karst features through desktop and pedestrian surveys and absence of any anomalies observed through the geophysical survey to indicate voids. The absence of karst features beneath the Site indicates the subsurface is stable and there is no imminent threat to human health, the environment, or groundwater, which eliminates the sensitive receptor as it relates to the Site. As such, based on initial response efforts, removal of impacted soil to the MEP, and full delineation of the release to the strictest Closure Criteria, XTO requests remediation closure approval for Incident Number NAPP2421529493. Waste-containing soil identified in the inaccessible area will be removed at the time of final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Tacoma Morrissey Associate Principal

Mouissey

Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Appendix A January 24, 2025 Deferral Request Report

Appendix B Excavation Guidance Document
Appendix C Environmental Karst Study Report



APPENDIX A

January 24, 2025 Deferral Request Report



January 24, 2025

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

Re: Deferral Request

James Ranch Unit DI 1A Battery Incident Number NAPP2421529493

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the James Ranch Unit DI 1A Battery (Site). The purpose of the 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 produced water at the Site. XTO is submitting this *Deferral Request*, describing excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2421529493 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.37996°, -103.88669°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On July 26, 2024, a corrosion on a 4-inch tester joint resulted in the release of 15 barrels (bbls) of produced water onto the pad surface adjacent to and underneath active production equipment and surface lines. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on August 9, 2024, and the release was assigned Incident Number NAPP2421529493.

Ensolum conducted delineation sampling within and around the release extent and results are presented in the *Work Plan* submitted to the New Mexico Oil Conservation Division (NMOCD) on October 24, 2024. The *Work Plan* proposed excavation of an estimated 300 cubic yards of impacted soil and confirmation soil sampling. The *Work Plan* was approved by the NMOCD on October 29, 2024, with no conditions.

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

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XTO Energy Deferral Request James Ranch Unit DI 1A Battery

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

EXCAVATION SOIL SAMPLING ACTIVITIES

Ensolum personnel returned to the Site between November 1, and November 5, 2024, to oversee excavation activities in accordance with the approved *Work Plan*. Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. Excavation activities were performed using a trackhoe and transport vehicle. The excavation occurred on the well pad around and below active production equipment and surface lines. To direct excavation activities, Ensolum personnel screened soil for VOCs utilizing a calibrated photoionization detector (PID) and chlorides utilizing Hach® chloride QuanTab® test strips. In addition, one delineation soil sample, SS08, was collected from a depth of 0.5 feet bgs to assess the lateral extent of the release.

Following removal of impacted soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation soil samples FS01 through FS18 were collected from the floor of the excavation from a depth of 2 feet bgs. Excavation sidewall soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 2 feet bgs. One confirmation soil sample, CS01, was collected from a depth of 0.5 feet bgs from the area inaccessable due to acitve production equipment. The final excavation extent and soil sample locations are presented on Figure 1. Photographic documentation of the excavation activities is presented on a Photographic Log 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) located in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The final excavation extent measured approximately 3,540 square feet. A total of approximately 300 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal and Landfill in Hobbs, New Mexico. Disposal manifests are included in Appendix B.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from the additional delineation soil samples, SS08, indicated all COC concentrations were in compliance with Closure Criteria. Laboratory analytical results for all confirmation floor and sidewall soil samples collected from the final excavation extent indicated all COC concentrations were in compliance with Closure Criteria. Laboratory analytical results for CS01, collected from the inaccessible area, indicated chloride concentrations exceeded Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.



XTO Energy Deferral Request James Ranch Unit DI 1A Battery

DEFERRAL REQUEST

Excavation activities were conducted at the Site as proposed in the *Work Plan* included in Appendix D. Impacted soil remains in the release extent where multiple surface pipelines and production equipment exist. The impacted soil contains chloride concentrations that exceed Closure Criteria. Lateral delineation of the residual impacted soil is defined by the delineation soil samples SS03 through SS08. Vertical delineation of residual impacted soil is defined by delineation soil samples PH01 and PH02 at 2 feet bgs. An estimated area of impacted soil left in place immediate adjacent to or below active production equipment measures approximately 100 square feet and a total of approximately 7.5 cubic yards of impacted soil remains in place. The estimated area of remaining impacted soil and referenced soil sample locations are presented in Figure 2. XTO is requesting deferral of final remediation in this area since excavation of the soil would require major facility deconstruction.

XTO does not believe deferment of the remaining 7.5 cubic yards of soil will result in imminent risk to human health, the environment, or groundwater and the impacted soil remaining in place is limited in areal and vertical extent. As such, XTO requests deferral of final remediation for Incident Number NAPP2421529493 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist Ashley L. Ager, M.S., P.G. Program Director

Ashley L. Ager

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

Bureau of Land Management

Appendices:

Figure 1 Excavation Soil Sample Locations

Figure 2 Deferral Area Map

Table 1 Soil Sample Analytical Results

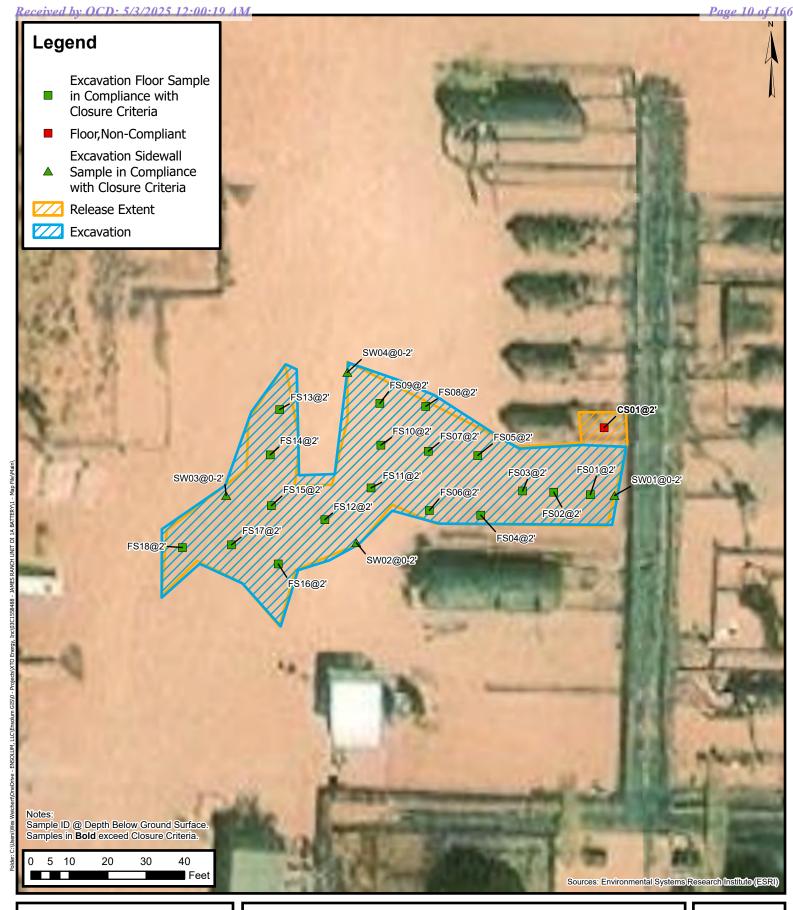
Appendix A Photographic Log Appendix B Disposal Manifests

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

Appendix D October 24, 2024 Remediation Work Plan



FIGURES



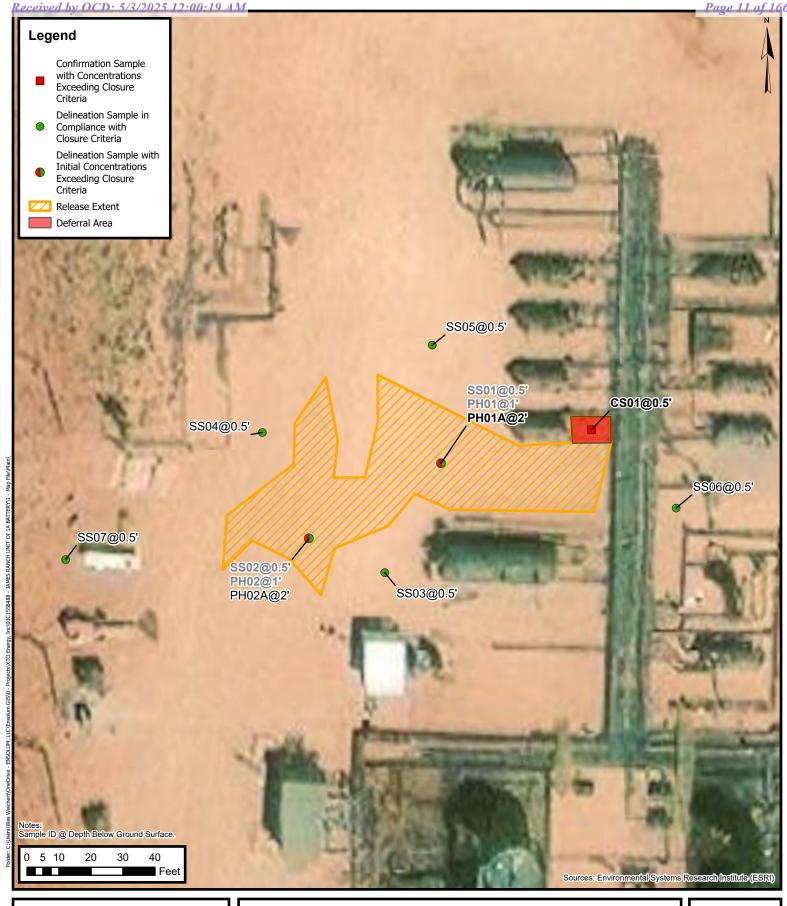


Excavation Soil Sample Locations

XTO Energy, Inc
JAMES RANCH UNIT DI 1A BATTERY
Incident Number: NAPP2421529493
Unit A, Sec 21, T22S, R30E
Eddy Co, New Mexico, United States

FIGURE

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Deferral Area Map

XTO Energy, Inc

JAMES RANCH UNIT DI 1A BATTERY
Incident Number: NAPP2421529493
Unit A, Sec 21, T22S, R30E
Eddy Co, New Mexico, United States

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JAMES RANCH UNIT DI 1A BATTERY 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 1 C	Closure Criteria (N	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Del	ineation Soil Sa	amples				
SS01	8/9/2024	0.5	<0.050	<0.300·	<10.0	<10.0	<10.0	< 10.0	<10.0	8,600
PH01	10/22/2024	4	<0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	2,120
PH01A	10/22/2024	2	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	352
SS02	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,730
PH02	10/22/2024	4	<0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	1,520
PH02A	10/22/2024	2	< 0.050	< 0.300	<20.0	<10.0	<10.0	<20.0	<20.0	80.0
SS03	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS04	8/9/2024	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS05	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	8/9/2024	0.5	< 0.050	<0.300	<10.0	77.4	<10.0	77.4	77.4	368
SS07	10/22/2024	0.5	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	240
SS08	1/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
				Con	firmation Soil S	amples				
FS01	11/5/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS02	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS03	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS04	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS05	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS06	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS07	11/5/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS08	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS09	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS10	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS11	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS12	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS13	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS14	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS15	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS16	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS17	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JAMES RANCH UNIT DI 1A BATTERY 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 1 C	Closure Criteria (N	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS18	11/5/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW01	11/5/2024	0-2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SW02	11/5/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW03	11/5/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW04	11/5/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS01	1/21/2025	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,840

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Grey text indicates soil samples removed by excavation. Soil sample in bold indicate soil sample exceed closure criteria GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Ensolum 2 of 2



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc James Ranch Unit DI 1A Battery NAPP2421529493





Photograph: 1 Date: 11/01/2024

Description: Excavation activities

View: West

Photograph: 2 Date: 11/05/2024

Description: Excavation activities

View: Southeast





Photograph: 3 Date: 11/05/2024

Description: Final excavation

View: East

Photograph: 4 Date: 11/18/2024

Description: Backfill View: West



APPENDIX B

Disposal Manifests

Compan	Man	Contac	t Info	rmation
Name Z	av	id ,	8,	rcb

SOLUTIONS SOLUTIONS	(PLEA)	SE PRINT) *REQUIR	ED INFORMATION*	one No
Note that the second se	GENI	RATOR	No. H	W-623611
Generator Manifest #		Location of Origin _	JKUDI	14 CTD
Generator Name 200 Joh 03 CHS	58488	Lease/Well Name & No.	ob 036 15582	488
Address		County	491599493	
City, State, Zip		API No. API No	082551001	
Phone No.		AFE/PO No		
The same of the sa	/Service Identification and Amoun	t (place volume next to was		
Oil Based Muds Oil Based Cuttings	NON-INJECTABLE WATERS Washout Water (Non-Injectable)	AT WAS -	OTHER EXEMPT E&P WASTE	STREAMS
Waste Based Muds Water Based Cuttings	Completion Fluid/Flow Back (Non-Inj Produced Water (Non-Injectable)	ectable)		n
Produced Formation Solids Tank Bottoms	Gathering Line Water/Waste (Non-In INTERNAL USE ONLY	ejectable)	TOP SOIL & CALICHE SALES	F
E&P Contaminated Soil Gas Plant Waste	Truck Washout (exempt waste)	YES NO	QUANTITY QUANTITY	TOP SOIL CALICHE
WASTE GENERATION PROCESS: DRILLIN	G COMPLETION	☐ PRODUCTIO	N GATHERING	GLINES
	NON-EXEMPT E&P Waste/	Service Identification and Amou	int	
All non-exempt E&P was Non-Exempt Other	e must be analysed and be below three		Ignitability, Corrosivity adn Reacti t from Non-Exempt Waste List (
	P. DARDELC			
DISPOSAL QUANTITY I hereby certify that the above listed material(s), is (are) not	B - BARRELS	L - LIQUID	Y - YARDS 9	E - EACH
packaged, and is in proper condition for transportation acco	rding to applicable regulation.			
RCRA EXEMPT: Oil field wastes g	enerated from oil and gas exploration y)	and production operation and a	re not mixed with non-exempt was	ste (R360 Accepts certifications on a
	nich is non-hazardous that does not ex			
waste as non-haz	1.24, or listed hazardous waste as def ardous is attached. (Check the approp	riate items as provided)	<u>—</u>	
MSDS Informatio		Hazardous Waste Analysis	and the second s	rovide Description Below)
EMERGENCY NON-OILFIELD Emergency non-h- determination and	azardous, non-oilfield waste that has b I a description of the waste must acco	peen ordered by the Department Ompany this form)	t of Public Safety (the order, docum	nentation of non-hazardous waste
ANNAL AUTHORITE ACTUTE DIRAUTHO		DATE	QUALLY LIPS	
(PRINT) AUTHORIZED AGENTS SIGNATURE		PORTER	SIGNATURE	
Transporter's Sem Tex me	with the same of t	Driver's Name	Dotor	
Address	11015119	Print Name	1010	
Phone No.		Phone No.	109	
Transporter Ticket # I hereby certify that the above named material(s) was/were	nicked up at the Generator's site lister	Truck No	ncident to the disposal facility lists	ed below
		11 15 9	4 Wester VI	leser.
SHIPMENT DATE DR	IVER'S SIGNATURE	DELIVERY DATE	RECEIVIN	R'S SIGNATURE
IN: OUT:	DISPUSA	L FACILITY	Name/No.	b Anca
ite Name/			(Valle) (Vo.	
ermit No. Haitway Facility / NIVIT-UL		Phone No. 57	5-392-6368	
Address 6601 Hobbs Hwy US 62 / 180 Mile I NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle	()	A142 0 0 0 0 0 0		V 1004 1001
NORM READINGS TAKEN? (Circle PASS THE PAINT FILTER TEST? (Circle	The same of the sa	If YES, was reading > 5	O micro roentgents? (Circle On	e) YES NO
SS TAGET AND THE FAT TEST (SINGLE		OTTOMS		
Feet Feet	Inches			
≼ st Guage		BS&W/BE	SLS Received Free Water	BS&W (%)
and Guage Beceived		To	tal Received	
hereby certify that the above load material has been (circle	one): \ ACCEPTED	DENIED If de	nied why?	
JUNIXIVE E				
	CIII ,	XXIII	1	
NAME (PRINT) White - R360 C	DATE RIGINAL YEILOW-TRANSPORTER	A mire)	5	IGNATURE

donc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR 308.R360-5240LE rev 08/23



(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Phone No.

4		GENEI	RATOR		N	o.HW-	705469		
Generator Manifest # Generator Name Address	XTO		Location of Lease/We Name & N County	ell	JRU	DI 1	A CTOV		
City, State, Zip Phone No.			Rig Name AFE/PO N	& No. C1		5/00/			
EX	EMPT E&P Waste/Service Ider	ntification and Amount (The state of the s		type in barrels or cu	bic yards)			
Oil Based Muds	NON-INJECT	ABLE WATERS		W. F. S. O. S.	OTHER EXEMPT E&F		MS		
Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	Completion F	ater (Non-Injectable) Fluid/Flow Back (Non-Injec ater (Non-Injectable) ne Water/Waste (Non-Inje SE ONLY			BILLY TOP SOIL & CALICHE	DUM	vpc		
Gas Plant Waste		ut (exempt waste)	YES	(NO)	QUANTITY		SOIL CALICHE		
WASTE GENERATION PROCESS:	DRILLING	COMPLETION		PRODUCTION	☐ GAT	THERING LINES			
	NO. nn-exempt E&P waste must be ana	N-EXEMPT E&P Waste/Se plysed and be below threst	hold limits for	toxicity (TCLP), Igni	The second secon				
Non-Exempt Other				please select fro	om Non-Exempt Was	ste List on back			
DISPOSAL QUANTITY	B - BARREI	LS	L - LIQUID	20	Y - YARDS		E - EACH		
I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation. Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only) Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided) MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below) Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)									
(PRINT) AUTHORIZED.	Dyrd		**		2001				
Transporter's Service Address Phone No. Transporter Ticket #	nTex M.	TRANSF	Driver's Na Print Name Phone No. Truck No.	ame 6	?ustav		· Z_		
I hereby certify that the above named ma	iterial(s) was/were picked up at th	ne Generator's site listed a		ered without incid	ent to the disposal fac	cility listed below.			
SHIPMENT DATE	DRIVER'S SIGNATURE			IVERY DATE	-	DRIVER'S SIGNAT	URE		
TRUCK TIME STA	Walleton and the second	DISPOSAL	. FACILI		Name/No.	CEIVING ARE	Α		
	cility / NM1-006 y US 62 / 180 Mile Marker 66 Car	Isbad, NM 88220	Phone No.	575-3	392-6368				
	S TAKEN? (Circle One) YES ER TEST? (Circle One) YES	NO	If YES, was	s reading > 50 m	ricro roentgents? (Ci	ircle One) YE	ES NO		
70		TANK BO	TTOMS						
St Guage Feet And Guage Beceived	Inches		E		Received ee Water Received	BS8	₩W (%)		
ereby certify that the above load mate	rial has been (circle one):	110	L (dainae	If denied	I, why?		7		
NAME (PRINT)		DATE	4 100	TITLE		SIGNATURE			

Company Man Contact In	formation
Name/JAVId.	Sua

SENVIRONMENTAL SOLUTIONS	(PLEAS	SE PRINT) *RE	QUIRED INFORMAT	ON* Phone No	
Pa	GEN	ERATOR			707750
Generator Manifest # X 7 C)	Location of Origin	1 - (·)	200.1100	/ 1// / 51
Generator Name		Lease/Well Name & No.	11/1	A	
Address		County	- 1-01	JU	
		API No.	= 030	\$58488	5
City, State, Zip Phone No.		Rig Name & No. AFE/PO No.	NAG	255100	9443
	Service Identification and Amour		o waste type in barrels	or cubic vards)	
Oil Based Muds	NON-INJECTABLE WATERS			PT E&P WASTE STREAMS	
Water Based Muds(Washout Water (Non-Injectable) Completion Fluid/Flow Back (Non-Inj	jectable)			
Produced Formation Solids	Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-In		_		
Lank Rottoms	NTERNAL USE ONLY	njectable)	TOP SOIL & CA	ALICHE SALES	
Gas Plant Waste	Truck Washout (exempt waste)	YES N		TOP SO	OIL CALICHE
WASTE GENERATION PROCESS: DRILLING	COMPLETION	☐ PRODU	JCTION	GATHERING LINES	
All non-exempt E&P waste	NON-EXEMPT E&P Waste/ must be analysed and be below thro	Service Identification and eshold limits for toxicity (l Amount TCLP), Ignitability, Corros	vity adn Reactivity	
Non-Exempt Other	11/2 12		select from Non-Exem	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, where the Owner, where the Owner, which is the	
DISPOSAL QUANTITY	B-BARRELS	L - LIQUID	2 Y-YARDS		E - EACH
I hereby certify that the above listed material(s), is (are) not have	zardous waste as defined by 40 CFF	Part 261 or any applicat	ole state law. That each w	aste has been properly de	scribed, classified and
packaged, and is in proper condition for transportation according RCRA EXEMPT: Oil field wastes gen	ing to applicable regulation. rerated from oil and gas exploration	and production operation	and are not mixed with a	non-exempt waste (B360 A	ecents certifications on
per load basis only)					
40 CFR 261.21-261.3	ch is non-hazardous that does not ex 24, or listed hazardous waste as def	fined by 40 CFR, part 261,	ards for waste hazardous subpart D, as amended.	by characteristics establis	hed in RCRA regulations on demonstrating the
waste as non-hazar MSDS Information	dous is attached. (Check the approp	riate items as provided) Hazardous Waste Analy		77	
	ardous, non-oilfield waste that has t		11.7	Other (Provide Describe order documentation of	AMERICAN CONTRACTOR OF THE PARTY OF THE PART
determination and a	description of the waste must acco	ompany this form)		to order, decementation of	Horr Hazardous Waste
(PRINT) AUTHORIZED AGENTS SIGNATURE		DATE		SIGNATURE	
Washington and the same of the	TRANS	PORTER			
Transporter's Name	mex	Driver's Name	withe	1/ //21	norll
Address	1071	Print Name			
Phone No	4230	Phone No. Truck No.	- 36	Rethirt	100/
I hereby certify that the above named material(s) was/were pic	cked up at the Generator's site lister		thout incident to the dispo	sal facility listed below.	, ,
	R'S SIGNATURE	1/15-0	21/6/1	/ 1/	
TRUCK TIME STAMP		L FACILITY	E /	RECEIVING AREA	
IN:	DISPUSA	IL FAGILITY	Name/No	HECEIVING ANEA	
Site Name/			Ivame/Ivo		
Permit No. Halfway Facility / NM1-006	1	Phone No.	575-392-6368		
6601 Hobbs Hwy US 62 / 180 Mile Ma					
NORM READINGS TAKEN? (Circle On		If YES, was reading	ng > 50 micro roentgen	ts? (Circle One) YES	NO
NORM READINGS TAKEN? (Circle On PASS THE PAINT FILTER TEST? (Circle On Feet		OTTOLIO			
Feet	IANK B	OTTOMS			
3st Guage	370100	BS&	W/BBLS Received	BS&W	/ (%)
and Guage Ecceived			Free Water Total Received		
	ACCEPTED /	DEAUED			
Dereby certify that the above load material has been (circle or	ne): ACCEPTED	DENIED	If denied, why?		
NAME (PRINT) NAME (PRINT) White Page ODIC	DATE	TITLE		SIGNATURE	
2-138 White - R360 ORIG	GINAL Yellow-TRANSPORTER (COPY Pink- GENERA	TOR SITE COPY Gold	- RETURN TO GENERATOR	200 0200 524015
2011/2011/1/13/2011/10///455-0452					308.R360-5240LE rev 08/2

Released to Imaging: 5/22/2025 1:31:15 PM



NEW MEXICO NON-HAZARDOUS OILFEILD WASTE MANIFEST (PLEASE PRINT)

-
Company Man Contact Information
Name David By
Phone No.
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-0014945
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1 1 00
1000 2.5 251 2
1002421529493
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AMS
TOP SOIL CALICHE
GATHERING LINES
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E - EACH
nation, the above described waste
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(R360 Accepts certifications on a per
stablished in RCRA regulations, 40
stablished in KCKA regulations, 40
ntation of non-hazardous waste
itation of non-nazardous waste
NATURE
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DRIVER'S SIGNATURE adam
DRIVER 3 SIGNATURE
ING AREA
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BS&W (%)
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SOLUTIONS								Phone No.	
d			GEN	ERATOR			NO. A	0-001494	17,
Generator Manifest #:)				tion of Origin	TRU	0114	001171	1.0
Generator Name					e/Well e & No.	Tab- 6	12/100	88 48	
Address				Cou		Garl		1700	
Address				API		Incl		ADD 2 4215	26462
City, State, Zip					lame & No.		82551		1 7 7 3
Phone No.				17 E.	PO No.		8231	- 0	
	EVENADT E.P. D. M.	ste/Service Identific	ration and Amou		100000	acte type in harr	als or subjects	rde)	
Oil Based Muds	EXCIVIFI EXF Was	NON-INJECTABLE WA	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	nt (place volun	e next to w	OTHER EXEMPT E			
Oil Based Cuttings		Washout Water (Non					Ď.		
Water Based Muds Water Based Cuttings		Completion Fluid/Flor Produced Water (Nor	the state of the s	able)			Belly		
Produced Formation Solids Tank Bottoms		Gathering Line Water		table)		TOD SOUL & CALLS	- 1		
E&P Contaminated Soil		INTERNAL USE ONLY		YES	(NO)	QUANTITY	HE SALES	TOP SOIL	CALICHE
Gas Plant Waste		Truck Washout (exe		***	NO	QUANTITY		TOP SOIL	CALICHE
WASTE GENERATION PROCESS	:	DRILLING	CON	MPLETION		PRODUCTION		GATHERING LINES	
			XEMPT E&P Waste,					(7.9.)	
PART CONTRACTOR AND ADDRESS OF THE PART OF	non-exempt E&P w	aste must be analysed	and be below the t						
Non-Exempt Other				*pl	ease select fr	om Non-Exempt W	aste List on ba	СК	
DISPOSAL QUANTITY		В-	BARRELS	L-U	QUID	20	Y - YARDS	E-	EACH
hereby certify that according to the		ation and Recovery Ac	ct (RCRA) and the U	S Environmental	Protection Ag	gency's July 1988 re	gulatory determ	ination, the above descr	ibed waste
oad is (Check the appropriate class		pnorated from all and a	ras evaloration and	production oper	ations and ass	a not mixed with no	n everent waste	o (B360 Accepts costifica	tions on a no
RCRA EXEMPT:	load basis only)	enerated from oil and g	gas exploration and	production oper	itions and are	e not mixed with no	n-exempt waste	e (R360 Accepts certifica	tions on a per
RCRA NON-EXEMPT:		nich is non-hazardous t	hat does not excee	d the minimum st	andards for v	vaste hazardous by	characteristics	established in RCRA regu	lations, 40
					, subpart D, a	is amended. The fo	lowing docume	ntation demonstrating th	ne waste as
		attached. (Check the a				1 01 - 10 - 11 0			
L	MSDS Information	п Цксь	RA Hazardous Wast	e Analysis		Other (Provide De	scription Below	"	
(PRINT) AUTHORIZED AGENT	S NAME			DATE			ŠI	GNATURE	
			TRAN	SPORTE	R				
Transporter's	5	Λ.			er's Name		agni	- 7/	
Name	Denter	Inex					Λ	1 00-02	
Address	(432) 8	1 7 7 7 7			Name		9 dr. 601-	1, 20, 1	
Phone No. Fransporter Ticket #	(451) 0	209 -4230		Truc	e No.		96045		
	1								
hereby certify that the above nam	ed material(s) was/v	were picked up at the 0	Generator's site list		and the second second				
1	D +			ed above and del	ivered withou	ut incident to the di	sposal facility lis	sted below.	
SHIPMENT DATE	115/24	DRIVER'S SIGNATURE	adu			ut incident to the di	sposal facility lis	oriver's signature	adr
		DRIVER'S SIGNATURE		- the	DELIVE	111	15 24	DRIVER'S SIGNATURE	adr
TRUCK TI	ME STAMP	DRIVER'S SIGNATURE			DELIVE	RY DATE ///	RECEIV		adr
TRUCK TI		DRIVER'S SIGNATURE		- the	DELIVE	RY DATE ///	15 24	DRIVER'S SIGNATURE	adri
TRUCK TI N:	ME STAMP			AL FACIL	DELIVE	RY DATE ///	RECEIV	DRIVER'S SIGNATURE	adr
TRUCK TI N: site Name/ Permit No. Antelope D	ME STAMP OUT:	Permit #		AL FACIL	ITY	Name	RECEIV	DRIVER'S SIGNATURE	adr
TRUCK TI N: Site Name/ Permit No. Antelope D 476 Battle Axe	ME STAMP OUT: praw Facility -	Permit #		AL FACIL	DELIVE ITY e No.	Name	RECEIVE/No.	DRIVER'S SIGNATURE	aden
TRUCK TI N: Site Name/ Permit No. Antelope D 476 Battle Axe	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One)	Permit #	DISPOS	AL FACIL	DELIVE ITY e No.	Name 575-236-1734	RECEIVE/No.	DRIVER'S SIGNATURE	
TRUCK TI N: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One)	Permit #	DISPOS	AL FACIL Phor	DELIVE ITY e No. ES, was reading	Name 575-236-1734	RECEIVE/No.	DRIVER'S SIGNATURE	
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One)	Permit #	DISPOS	AL FACIL Phor If Y NO	e No.	Name 575-236-1734 ng > 50 micro roent	RECEIVE/No.	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER Ist Gauge	OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One)	Permit # 252 YES YES	DISPOS	AL FACIL Phor If Y NO	e No.	Name 575-236-1734 ng > 50 micro roent	RECEIVE/No.	DRIVER'S SIGNATURE	
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER Let Gauge and Gauge	OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One)	Permit # 252 YES YES	DISPOS	AL FACIL Phor If Y NO	e No.	Name 575-236-1734 ng > 50 micro roent	RECEIVE/No.	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER 1st Gauge 2nd Gauge Received	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One) R TEST? (Circle One)	Permit # 252 YES YES Inches	NO	Phor If Y NO BOTTOM	e No.	Name 575-236-1734 ng > 50 micro roent 2W/8BLS Received Free Water	RECEIVE/No.	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	(edam)
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER Ist Gauge Part Gauge Received	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One) R TEST? (Circle One)	Permit # 252 YES YES Inches	NO	Phor If Y NO BOTTON	e No.	Name 575-236-1734 ng > 50 micro roent W//BBLS Received Free Water Total Received	RECEIVE/No.	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	
TRUCK TI IN: Site Name/ Permit No. Address Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER Ist Gauge Pand Gauge Received	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One) R TEST? (Circle One)	Permit # 252 YES YES Inches	NO	Phor If Y NO BOTTOM	e No.	Name 575-236-1734 ng > 50 micro roent W//BBLS Received Free Water Total Received	RECEIVE/No.	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	
TRUCK TI N: ite Name/ termit No. ddress Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER st Gauge and Gauge eceived	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One) R TEST? (Circle One)	Permit # 252 YES YES Inches	NO	Phor If Y NO BOTTOM	e No.	Name 575-236-1734 ng > 50 micro roent W//BBLS Received Free Water Total Received	RECEIVE AND	DRIVER'S SIGNATURE ZING AREA PROPERTY OF THE	
TRUCK TI N: ite Name/ Permit No. Iddress Antelope D 476 Battle Axe NORM READINGS T PASS THE PAINT FILTER st Gauge and Gauge ecceived I hereby certify that the above le	ME STAMP OUT: Praw Facility - Rd. , Jal, NM 882 CAKEN? (Circle One) R TEST? (Circle One)	Permit # 252 YES YES Inches	NO	Phor If Y NO BOTTOM	e No.	Name 575-236-1734 ng > 50 micro roent W//BBLS Received Free Water Total Received	RECEIVE AND	DRIVER'S SIGNATURE VING AREA De) YES BS&W (%)	

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Phone No.

		GENERATOR	NO.H	W- 717794				
Generator Manifest # Generator Name Address	TO XTO	Location of Origin Lease/Well Name & No. County API No.	JRUDI 1 A 05 03C1558 7 # NAPP 242	CTV 488 1529493				
City, State, Zip Phone No.		Rig Name & No.	ce 1082551	1001				
1.111.111.1111.1111.1111.1111.1111.1111.1111	XEMPT E&P Waste/Service Identification	AFE/PO No.	waste type in barrels or cubic var	del				
Oil Based Muds	NON-INJECTABLE WAT		OTHER EXEMPT E&P WAST					
Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	Washout Water (Non-In Completion Fluid/Flow I Produced Water (Non-In Gathering Line Water/V INTERNAL USE ONLY	Sack (Non-Injectable) jectable) /aste (Non-Injectable)	TOP SOIL & CALICHE SALES	RECEIVED TO SERVE				
Gas Plant Waste WASTE GENERATION PROCESS:	Truck Washout (exempt		QUANTITY	TOP SOIL CALICHE				
WASTE GENERATION PROCESS:		PLETION PRODUC		IG LINES				
All Non-Exempt Other	NON-EXEMPT non-exempt E&P waste must be analysed and l		mount CLP), Ignitability, Corrosivity adn React Plect from Non-Exempt Waste List					
DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	20 Y-YARDS	E - EACH				
I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation. Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only) Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided) MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below) Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)								
(PRINT) AUTHORIZE	D AGENTS SIGNATURE	DATE	SIGNATURE					
Address Phone No. Transporter Ticket #	TCY MCX	TRANSPORTER Driver's Name Print Name Phone No. Truck No. Truck No. Truck No. Driver's site listed above and delivered without the control of the control	Ren. Gard	ted below.				
SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIV	ER'S SIGNATURE				
TRUCK TIME ST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPOSAL FACILITY	RECEIVIN Name/No.	IG AREA 28				
	acility / NM1-006 wy US 62/180 Mile Marker 66 Carlsbad, NM		575-392-6368					
ALCOHOLOGICAL CONTRACTOR AND ACCORDANCE OF THE PROPERTY AND AC	GS TAKEN? (Circle One) YES NC TER TEST? (Circle One) YES NC	to a table to the second	> 50 micro roentgents? (Circle Or	ne) YES NO				
St Guage Feet And Guage Feet Received	Inches	ANK BOTTOMS BS&W	/BBLS Received Free Water Total Received	BS&W (%)				
ereby certify that the above load ma	terial has been (circle one): ACCEPTED	DENIED / DITTILE	f denied, why?	C .				

(PLEASE PRINT)

REQUIRED INFORMATION

Compar	y Man Contact Information
Name	David Byrd
Phone N	lo

Pag		OFFILE	DATOR	1000	
Generator Manifest # X77	2	GENI	ERATOR Location of Origin	NO.HW-	717399
			Lease/Well	TOU DI IN CT	
Generator Name Address			Name & No.	ESX, 117 C17	2
07. 0 7.			APINO.	APZ421529493	
City, State, Zip Phone No.			Rig Name & No. C. LS AFE/PO No.	282551001	
				e type in barrels or cubic yards)	
Oil Based Muds Oil Based Cuttings	NAME OF TAXABLE PARTY.	JECTABLE WATERS t Water (Non-Injectable)		OTHER EXEMPT E&P WASTE STREAMS	3
Water Based Muds Water Based Cuttings	Complet	ion Fluid/Flow Back (Non-Inje d Water (Non-Injectable)	ectable)		
Produced Formation Solids Tank Bottoms	Gatherin	ng Line Water/Waste (Non-In AL USE ONLY	jectable)	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil Gas Plant Waste		ashout (exempt waste)	YES NO	QUANTITY 20 1/2 TOPS	SOIL CALICHE
WASTE GENERATION PROCES	S: DRILLING	COMPLETION	☐ PRODUCTION		
	All non-exempt E&P waste must b	NON-EXEMPT E&P Waste/S	Service Identification and Amoun	nt gnitability, Corrosivity adn Reactivity.	11.700
Non-Exempt Other		30 30 30 30 30 30 30 30 30 30 30 30 30 3		from Non-Exempt Waste List on back	
DISPOSAL QUANTITY	B - BA	RRELS	L-LIQUID 20	Y-YARDS	E - EACH
I hereby certify that the above lister packaged, and is in proper condition	material(s), is (are) not hazardous	waste as defined by 40 CFR	Part 261 or any applicable state	law. That each waste has been properly de	escribed, classified and
RCRA EXEMPT:			and production operation and are	e not mixed with non-exempt waste (R360 A	Accepts certifications on a
RCRA NON-EXEMPT:	Oil field waste which is nor	-hazardous that does not exc	eed the minimum standards for	waste hazardous by characteristics establis	shed in RCRA regulations.
	40 CFR 261.21-261.24, or lis	sted hazardous waste as defi attached. (Check the appropr	ned by 40 CFR, part 261, subpart	t D, as amended. The following documentat	ion demonstrating the
T EMERGENION NON OUTER D	MSDS Information		Hazardous Waste Analysis	Other (Provide Desc	STORES THE PROPERTY OF STREET
EMERGENCY NON-OILFIELD	determination and a descrip	non-oilfield waste that has be ption of the waste must acco	een ordered by the Department mpany this form)	of Public Safety (the order, documentation of	f non-hazardous waste
(PRINT) AUTHOR	LUGSY IZED AGENTS SIGNATURE	11.18	5.24 <u></u>	SIGNATURE	
Transport		TRANS	PORTER	SIGNATURE	
	1ex Mex		Driver's Name	Tad Cusay	
Address Phone No.			Print Name Phone No.		
Transporter Ticket #			Truck No.	7	
I hereby certify that the above name	d material(s) was/were picked up	at the Generator's site listed	above and delivered without ind	cident to the disposal facility listed below.	
SHIPMENT DATE	DRIVER'S SIGNA	The second secon	DELIVERY DATE	DRIVER'S SIGNATUE	IE .
TRUCK TIME :		DISPOSA	L FACILITY	RECEIVING AREA	15
Site Name/	UT:			Name/No	
ermit No. Halfway	Facility / NM1-006 Hwy US 62/180 Mile Marker 66	Corlohad NM 90220	Phone No. 575	-392-6368	
NORM READI		YES NO	If VEC upo reading a EO		NO
PASS THE PAINT		ES NO	II TES, was reading > 50	micro roentgents? (Circle One) YES	NO NO
NORM READI PASS THE PAINT Feet And Guage And Guage		TANK B	OTTOMS		
Feet Guage	Inch	es	BS&W/BBL	S Received BS&V	V (%)
2nd Guage				Free Water	
0	stoilat has been defined and the	ACCEPTED		Il Received	
bereby certify that the above load n	laterial has been (circle one):	B TITELL	DENIED If deni	ed, why?	7
NAME (PRINT)		DATE	TITLE	SIGNATURE	
nc@northstarforms.com (877)499-04	White - R360 ORIGINAL	Yellow- TRANSPORTER C	OPY Pink- GENERATOR SIT	E COPY Gold- RETURN TO GENERATOR	R 308.R360-5240LE rev 08/23

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Phone No.

Released to Imaging: 5/22/2025 1:31:15 PM

1,		GENE	RATOR	NO.HW- 717401
Generator Manifest # 10	/		Location of Origin	12301058488
Solidato Malillott ii			Lease/Well	
Generator Name			Name & No.	RUDI IACTU
Address			County 27 E	F21
			API No.	MAPR 2471529495
City, State, Zip			Rig Name & No.CC.	082551001
Phone No.			AFE/PO No.	
	/FNADT FO D VA/ /D	and the laboration of A	The state of the s	
		ervice Identification and Amoun	t (place volume next to waste	
Oil Based Muds Oil Based Cuttings		ION-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS
Water Based Muds		Vashout Water (Non-Injectable) completion Fluid/Flow Back (Non-Inj	octable)	
Water Based Cuttings		roduced Water (Non-Injectable)	ectable)	
Produced Formation Solids		athering Line Water/Waste (Non-In	jectable)	A contract to the contract of
Tank Bottoms		NTERNAL USE ONLY		TOP SOIL & CALICHE SALES
Gas Plant Waste	7	ruck Washout (exempt waste)	YES NO	QUANTITY 20 Vet TOP SOIL CALICHE
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION	
TO OTE GENERALISM FOR THOOLOG.				
	en avenue EOD	NON-EXEMPT E&P Waste/S	Service Identification and Amoun	t
	on-exempt E&P waste	must be analysed and be below thre		gnitability, Corrosivity adn Reactivity.
Non-Exempt Other			*please select	from Non-Exempt Waste List on back
DISPOSAL QUANTITY		B - BARRELS	L-LIQUID 20	Y-YARDS E-EACH
packaged, and is in proper condition for	aterial(s), is (are) not ha	zardous waste as defined by 40 CFR	Part 261 or any applicable state	law. That each waste has been properly described, classified and
RCRA EXEMPT:			and production appretion and arr	e not mixed with non-exempt waste (R360 Accepts certifications of
THOMA EXEIVIT I.	per load basis only)	erateu nom on anu gas exploration	and production operation and are	e not mixed with non-exempt waste (6360 Accepts certifications o
RCRA NON-EXEMPT:	and the state of t	is non-hazardous that does not ex	need the minimum standards for	waste hazardous by characteristics established in RCRA regulation
I HOMATTON EXEMITI	40 CFR 261.21-261.2	4, or listed hazardous waste as defi	ined by 40 CFR, part 261, subpart	D, as amended. The following documentation demonstrating the
	waste as non-hazaro	lous is attached. (Check the appropr	riate items as provided)	
The second secon	MSDS Information	RCRA	Hazardous Waste Analysis	Other (Provide Description Below)
■ EMERGENCY NON-OILFIELD	Emergency non-haza	rdous, non-oilfield waste that has b	een ordered by the Department	of Public Safety (the order, documentation of non-hazardous wast
	determination and a	description of the waste must acco	mpany this form)	
lad Carl	y	11/8	1.24 0	
(PRINT) AUTHORIZED	AGENTS SIGNATURE		DATE	SIGNATURE
All makes and all		TRANS	PORTER	
Transporter's	ex Mex	11174140	-	-7/ rv
A CONTRACTOR OF THE PROPERTY O	SVICK		Driver's Name	To Curry
			ACCOUNT OF THE PROPERTY OF THE	
Address			Print Name	
Phone No.			Print Name Phone No.	7
Phone No. Transporter Ticket #			Print Name Phone No. Truck No.	2
Phone No. Transporter Ticket #	aterial(s) was/were pic	ked up at the Generator's site listed	Print Name Phone No. Truck No.	cident to the disposaLfacility listed below.
Phone No. Transporter Ticket # I hereby certify that the above named m	The state of the s		Print Name Phone No. Truck No. above and delivered without inc	1000
Phone No. Transporter Ticket # I hereby certify that the above named m	DRIVE	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc	cident to the disposaLfacility listed below. ORIVER'S SIGNATURE
Phone No. Transporter Ticket # I hereby certify that the above named m	DRIVE	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc	1000
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA	DRIVE AMP	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc	DRIVER'S SIGNATURE RECEIVING AREA
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA	DRIVE AMP	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc	DRIVER'S SIGNATURE
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN:OUT:	DRIVE	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc J. St 2 - DELIVERY DATE L FACILITY	DRIVER'S SIGNATURE RECEIVING AREA Name/No.
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT: Site Name/ Permit No. Halfway Fa	DRIVE	TS SIGNATURE DISPOSA	Print Name Phone No. Truck No. above and delivered without inc S	DRIVER'S SIGNATURE RECEIVING AREA
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT: Site Name/ Permit No. Halfway Fa	DRIVE	R'S SIGNATURE	Print Name Phone No. Truck No. above and delivered without inc J. St 2 - DELIVERY DATE L FACILITY	DRIVER'S SIGNATURE RECEIVING AREA Name/No.
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT: Site Name/ Permit No. Halfway Fa	DRIVE	DISPOSA rker 66 Carlsbad, NM 88220	Print Name Phone No. Truck No. above and delivered without inc Solution Solution	PRECEIVING AREA Name/No. -392-6368
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN:OUT: Site Name/ Permit No. Halfway Fa	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TRESSIGNATURE DISPOSA TRICKET 66 Carlshad, NM 88220 TRICKET 66 CARLSHAD, NM 88220 TRICKET 68 CARLSHAD, NM 88220	Print Name Phone No. Truck No. above and delivered without inc Solution Solution	PRECEIVING AREA Name/No. -392-6368
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN:OUT: Site Name/ Permit No. Halfway Fa	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	There 66 Carlshad, NM 88220 PLANCE NO PLAN	Print Name Phone No. Truck No. Jabove and delivered without inc JELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50	PRECEIVING AREA Name/No. -392-6368
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN:OUT: Site Name/ Permit No. Halfway Fa	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TANK B	Print Name Phone No. Truck No. above and delivered without inc Solution Solution	PRECEIVING AREA Name/No. -392-6368
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN:OUT: Site Name/ Permit No. Halfway Fa	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	There 66 Carlshad, NM 88220 PLANCE NO PLAN	Print Name Phone No. Truck No. Jabove and delivered without inc DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50	PRIVER'S SIGNATURE RECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT: Site Name/ Permit No. Address NORM READING PASS THE PAINT FILE Feet Feet	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TANK B	Print Name Phone No. Truck No. Jabove and delivered without inc J. J. S. J. J. DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%)
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME ST. IN: OUT: Warning No. Address NORM READING PASS THE PAINT FILT Feet Feet Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME ST. OUT: Feet Feet Feet	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TANK B	Print Name Phone No. Truck No. Jabove and delivered without inc J. J. S. J. DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT: Site Name/ Permit No. 6601 Hobbs Hw NORM READING PASS THE PAINT FILT Feet	DRIVE AMP cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TANK B	Print Name Phone No. Truck No. Jabove and delivered without inc J. J. S. J. DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%)
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME ST. IN: OUT: Warnit No. Address NORM READING PASS THE PAINT FILE Feet Feet Feet Feet Feet	cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TKET 66 Carlshad, NM 88220 PES NO PES NO TANK B Inches	Print Name Phone No. Truck No. Jabove and delivered without inc DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water I Received
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT OUT OUT OUT Feet NORM READING PASS THE PAINT FILT Feet Feet Truck Time STA OUT Feet Feet Feet Feet Truck Time STA Feet Feet Feet Feet Feet Feet Feet	cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TKET 66 Carlshad, NM 88220 PES NO PES NO TANK B Inches	Print Name Phone No. Truck No. Jabove and delivered without inc DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT OUT OUT OUT Feet NORM READING PASS THE PAINT FILT Feet Feet Truck Time STA OUT Feet Feet Feet Feet Truck Time STA Feet Feet Feet Feet Feet Feet Feet	cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	TKET 66 Carlshad, NM 88220 PES NO PES NO TANK B Inches	Print Name Phone No. Truck No. Jabove and delivered without inc DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water I Received
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT OUT OUT OUT Feet NORM READING PASS THE PAINT FILT Feet Feet Truck Time STA OUT Feet Feet Feet Feet Truck Time STA Feet Feet Feet Feet Feet Feet Feet	cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On TER TEST? (Circle On	PES SIGNATURE DISPOSA TRIVET 66 Carlsbad, NM 88220 PES NO YES NO TANK B Inches PACCEPTED DATE	Print Name Phone No. Truck No. Jabove and delivered without inc J. S. Z. Y. DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS BS&W/BBLS Tota DENIED DENIED If deni	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water I Received ed, why? SIGNATURE
Phone No. Transporter Ticket # I hereby certify that the above named m SHIPMENT DATE TRUCK TIME STA IN: OUT Site Name/ Permit No. 6601 Hobbs Hw NORM READING PASS THE PAINT FILT Feet Feet Feet Ahereby certify that the above load mate	cility / NM1-006 ry US 62 / 180 Mile Ma S TAKEN? (Circle On	PES SIGNATURE DISPOSA TRIVET 66 Carlsbad, NM 88220 PES NO YES NO TANK B Inches PACCEPTED DATE	Print Name Phone No. Truck No. Jabove and delivered without inc J. S. Z. Y. DELIVERY DAFE L FACILITY Phone No. 575 If YES, was reading > 50 OTTOMS BS&W/BBLS Tota DENIED DENIED If deni	PRECEIVING AREA Name/No. -392-6368 micro roentgents? (Circle One) YES NO S Received BS&W (%) Free Water I Received ed, why? SIGNATURE

Compa	ny Man	Con	tact	Information
Name .	U	A	10	Information

ENVIRONMENTAL SOLUTIONS	(PLEASE P	RINT) *REQUIRED	INFORMATION* Na	one No. By
J. C	GENERA	ATOR	NO.H	N-717398
Generator Manifest #		Location of Origin Lease/Well	100305	58988
Generator Name Address		Name & No.	RU DIJA	CIE
Academic Control of Co		API No Dicident	MAPP 211215.	29493
City, State, Zip		AFE/PO No.	08255100	
11/1/2/10/11/2/	/Service Identification and Amount (pla		type in barrels or cubic yard	s)
Oil Based Muds Oil Based Cuttings	NON-INJECTABLE WATERS Washout Water (Non-Injectable)		OTHER EXEMPT E&P WASTE	
Water Based Muds Water Based Cuttings	Completion Fluid/Flow Back (Non-Injectate Produced Water (Non-Injectable)	ole)		
Produced Formation Solids Tank Bottoms	Gathering Line Water/Waste (Non-Injecta	able)	TOO SOUL A DAVIOUR CALLS	
E&P Contaminated Soil Gas Plant Waste	INTERNAL USE ONLY Truck Washout (exempt waste)	YES NO	TOP SOIL & CALICHE SALES QUANTITY 7 OVER	TOP SOIL CALICHE
WASTE GENERATION PROCESS: DRILLIN	G COMPLETION	PRODUCTION	☐ GATHERING	
All non-exempt F&P was:	NON-EXEMPT E&P Waste/Service to must be analysed and be below threshold	ce Identification and Amount	oitability Corrosivity ado Boasti	idte
Non-Exempt Other	e most ac analysed and be acrow the anot		om Non-Exempt Waste List of	
DISPOSAL QUANTITY	B - BARRELS L -	O C dindin	(Y - YARDS)	E - EACH
I hereby certify that the above listed material(s), is (are) not packaged, and is in proper condition for transportation according to the packaged of the pack	hazardous waste as defined by 40 CFR Part	261 or any applicable state I	aw. That each waste has been	properly described, classified and
RCRA EXEMPT: Oil field wastes g	enerated from oil and gas exploration and p	production operation and are	not mixed with non-exempt was	ste (R360 Accepts certifications on a
per load basis onl RCRA NON-EXEMPT: Oil field waste wh	nich is non-hazardous that does not exceed	the minimum standards for w	vaste hazardous by characterist	ics established in RCRA regulations,
40 CFR 261.21-26	1.24, or listed hazardous waste as defined large and article a	by 40 CFR, part 261, subpart I	D, as amended. The following d	ocumentation demonstrating the
MSDS Information		ardous Waste Analysis		ovide Description Below)
EMERGENCY NON-OILFIELD Emergency non-haddetermination and	azardous, non-oilfield waste that has been of a description of the waste must accompar	ordered by the Department of ny this form)	Public Safety (the order, docum	nentation of non-hazardous waste
PRINT) AUTHORIZED AGENTS SIGNATURE	11.18-DATE	24 Day	SIGNATURE	>
Transportation	TRANSPO	ORTER		
Transporter's Sen TexMex		The state of the s	O Curry	
AddressPhone No.		Print Name Phone No.	34995357	
Transporter Ticket #		Truck No. 6	2	
I hereby certify that the above named material(s) was/were	picked up at the Generator's site listed above	ve and delivered without incid	dent to the disposal facility liste	ed below.
	IVER'S SIGNATURE	DELIVERY DATE	The second secon	R'S SIGNATURE
TRUCK TIME STAMP IN:OUT:	DISPOSAL F		Name/No.	G-AREA
Site Name/		L	Name/No	
Permit No. Halfway Facility / NM1-00		Phone No. 575 -	392-6368	
NORM READINGS TAKEN? (Circle C		If VES, was reading > 50 m	nicro roentgents? (Circle One	e) YES NO
PASS THE PAINT FILTER TEST? (Circle C	The state of the s	in 120, was reading 2 00 ii	mero roenigenta. (oncie one	7 125 140
OCCUPANT AND THE PAINT FILTER TEST? (Circle Company of Guage Feet Feet Feet Feet Feet Feet Feet Fe	TANK BOT	TOMS		
Sst Guage Feet	Inches	BS&W/BBLS	Received	BS&W (%)
and Guage Geceived			ree Water Received	112.
Pereby certify that the above load-material has been (circle	one): , ACCEPTED / L DEN	NIED 10 at 1 If denier		
a regenera P	11/18/29	that		٧.
NAME (PRINT) NAME (PRINT) White - R360 OF	DATE	/ TITLE		GNATURE
**Mhite - R360 OF	RIGINAL Yellow-TRANSPORTER COPY	Pink- GENERATOR SITE	COPY Gold- RETURN TO G	308.R360-5240LE rev 08/23

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REQUIRED INFORMATION

Company Man Contact Information Phone No.

	VID	GEN	ERATOR	NO. HW- 681612
Generator Manifest #	110		Location of Origin _	001012
Generator Name			Lease/Well Name & No.	TRUDITA CIB
Address			County	530 155 8488
			API No.	1421529493
City, State, Zip			Rig Name & No.	082551001
Phone No.	EVEN 107 FO DAM		AFE/PO No	
Oil Based Muds		ICE Identification and Amou I-INJECTABLE WATERS	nt (place volume next to was	te type in barrels or cubic yards) OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	THE REAL PROPERTY.	hout Water (Non-Injectable)		UTHER EXEMPT EXP WASTE STREAMS
Waste Based Muds Water Based Cuttings		pletion Fluid/Flow Back (Non-In uced Water (Non-Injectable)	njectable)	
Produced Formation Solids Tank Bottoms	Gath	ering Line Water/Waste (Non-I	Injectable)	Belly DumP
E&P Contaminated Soil	00.17	RNAL USE ONLY		TOP SOIL & CALICHE SALES
Gas Plant Waste		(Washout (exempt waste)	YES NO	QUANTITY TOP SOIL CALICHE
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION	
Al	non-exempt E&P waste mus	NON-EXEMPT E&P Waste, at be analysed and be below the	/Service Identification and Amou	int Ignitability, Corrosivity adn Reactivity.
Non-Exempt Other		and be deleted the		from Non-Exempt Waste List on back
DISPOSAL QUANTITY	В	BARRELS		
		THE STATE OF THE S	L - LIQUID	GOY-YARDS E-EACH
packaged, and is in proper condition	for transportation according t	o applicable regulation.	R Part 261 or any applicable stat	te law. That each waste has been properly described, classified and
RCRA EXEMPT:	Oil field wastes generat	ed from oil and gas exploration	and production operation and a	re not mixed with non-exempt waste (R360 Accepts certifications on a
RCRA NON-EXEMPT:	per load basis only) Oil field waste which is	non-hazardous that does not o	veged the minimum standards fo	r waste hazardous by characteristics established in RCRA regulations,
TIGHA NON-EXEMIT.	40 CFR 261.21-261.24, c	or listed hazardous waste as de	fined by 40 CFR, part 261, subpa	rt D, as amended. The following documentation demonstrating the
	MSDS Information	s is attached. (Check the approp	oriate items as provided) A Hazardous Waste Analysis	Other (Provide Description Below)
EMERGENCY NON-OILFIELD	The second secon		A planta to the Land and the Land and the Land	t of Public Safety (the order, documentation of non-hazardous waste
	datarmination and a day	and the common transco that has	boon ordered by the bepartment	of tobile durety (the dider, documentation of non-nazardous waste
	determination and a des	scription of the waste must acc	ompany this form)	
(PRINT) AUTHORIZ		scription of the waste must acc	ompany this form)	and the state of t
(PRINT) AUTHORIZ	ED AGENTS SIGNATURE		ompany this form) DATE	SIGNATURE
Transporter's	ED AGENTS SIGNATURE	TRANS	DATE SPORTER	SIGNATURE
Transporter's Sen			DATE SPORTER Driver's Name	and the state of t
Transporter's	ED AGENTS SIGNATURE	TRANS	DATE SPORTER	SIGNATURE
Transporter's Name Address Phone No. Transporter Ticket #	Fex Mex	TRANS Trucking	DATE SPORTER Driver's Name Print Name Phone No. Truck No.	SIGNATURE Peter 109
Transporter's Name Address Phone No. Transporter Ticket #	Fex Mex	TRANS Trucking	DATE SPORTER Driver's Name Print Name Phone No. Truck No.	SIGNATURE Peter 109 ncident to the disposal facility listed below.
Transporter's Name Address Phone No. Transporter Ticket #	Fex Mex	TRANS Trucking up at the Generator's site liste	DATE SPORTER Driver's Name Print Name Phone No. Truck No.	SIGNATURE Peter 109 Incident to the disposal facility listed below.
Transporter's Name Address Phone No. Transporter Ticket # I hereby certify that the above named	Tex Alex material(s) was/were picked	TRANS Trucking up at the Generator's site liste	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in	SIGNATURE Peter 109 ncident to the disposal facility listed below. DRIVER'S SIGNATURE
Transporter's Name Address Phone No. Transporter Ticket # I hereby certify that the above named SHIPMENT DATE TRUCK TIME S	Tex Mex material(s) was/were picked DRIVER'S S	TRANS Trucking up at the Generator's site liste	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in	SIGNATURE Peter 109 ncident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN:OU	Tex Mex material(s) was/were picked DRIVER'S S	TRANS Trucking up at the Generator's site liste	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in	SIGNATURE Peter 109 ncident to the disposal facility listed below. DRIVER'S SIGNATURE
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. Halfway F	material(s) was/were picked ORIVER'S S TAMP T:	TRANS Trucking up at the Generator's site liste IGNATURE DISPOSA	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY	SIGNATURE Peter 109 ncident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN:OU Site Name/ Permit No. Halfway F	material(s) was/were picked ORIVER'S S TAMP T:	TRANS Trucking up at the Generator's site liste IGNATURE DISPOSA	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY	SIGNATURE Peter Deliver's SIGNATURE RECEIVING AREA Name/No.
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. Halfway F	material(s) was/were picked DRIVER'S S TAMP T: Cacility / NIM1-006 Wy US 62 / 180 Mile Market GS TAKEN? (Circle One)	TRANS Trucking up at the Generator's site liste IGNATURE DISPOSA	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY Phone No. 57	SIGNATURE Peter Deliver's SIGNATURE RECEIVING AREA Name/No.
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. Halfway F	material(s) was/were picked DRIVER'S S TAMP T: Cacility / NM1-006 Wy US 62/180 Mile Market	TRANS up at the Generator's site liste IGNATURE DISPOSA r 66 Carlsbad, NM 88220	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY Phone No. 57	SIGNATURE Peter I 09 Incident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. 5-392-6368
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. Halfway F	material(s) was/were picked DRIVER'S S TAMP T: Cacility / NIM1-006 Wy US 62 / 180 Mile Market GS TAKEN? (Circle One)	TRANS Trucking up at the Generator's site liste IGNATURE DISPOSA r 66 Carlsbad, NM 88220 YES NO YES NO	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY Phone No. 57	SIGNATURE Peter I 09 Incident to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. 5-392-6368
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN:OU Site Name/ Permit No. Halfway F	material(s) was/were picked DRIVER'S S TAMP T: facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS Trucking up at the Generator's site liste IGNATURE DISPOSA r 66 Carlsbad, NM 88220 YES NO YES NO	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50	SIGNATURE Peter Deliver's Signature RECEIVING AREA Name/No. Divided to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. Signature RECEIVING AREA Name/No. Nomicro roentgents? (Circle One) YES NO
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. 6601 Hobbs H NORM READIN PASS THE PAINT F	material(s) was/were picked DRIVER'S S TAMP T: facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS TYPE KING Up at the Generator's site lister IGNATURE DISPOSA TANK E	DATE SPORTER Driver's Name Print Name Phone No. Truck No. d above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50	SIGNATURE Peter Delivers Signature RECEIVING AREA Name/No. Divicer's Signature RECEIVING AREA Name/No. State One No. No. No. State One No. State One Signature RECEIVING AREA No. State One
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN:OU Site Name/ Permit No. Halfway F	material(s) was/were picked DRIVER'S S TAMP T: facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS TYPE KING Up at the Generator's site lister IGNATURE DISPOSA TANK E	DATE SPORTER Driver's Name Print Name Phone No. Truck No. In above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 BOTTOMS BS&W/BB	SIGNATURE Peter Deliver's Signature RECEIVING AREA Name/No. Divided to the disposal facility listed below. DRIVER'S SIGNATURE RECEIVING AREA Name/No. Signature RECEIVING AREA Name/No. Nomicro roentgents? (Circle One) YES NO
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. 6601 Hobbs H NORM READIN PASS THE PAINT F	material(s) was/were picked ORIVER'S S TAMP T: Facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS TYPE Up at the Generator's site lister IGNATURE DISPOSA TANK E nches	DATE SPORTER Driver's Name Print Name Phone No. Truck No. In above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 BOTTOMS BS&W/BB	SIGNATURE Peter Deliver's Signature RECEIVING AREA Name/No.
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. 6601 Hobbs H NORM READIN PASS THE PAINT FI Feet Feet Feet Feet Feet Feet	material(s) was/were picked ORIVER'S S TAMP T: Facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS TYPE KING Up at the Generator's site lister IGNATURE DISPOSA TANK E	DATE SPORTER Driver's Name Print Name Phone No. Truck No. In above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 BOTTOMS BS&W/BB	SIGNATURE Peter Delivers Signature RECEIVING AREA Name/No. Divisor roentgents? (Circle One) YES NO LS Received BS&W (%) Free Water
Transporter's Name Address Phone No. Transporter Ticket # Thereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. 6601 Hobbs H NORM READIN PASS THE PAINT FI Feet Feet Feet Feet Feet Feet	material(s) was/were picked ORIVER'S S TAMP T: Facility / NIM1-006 wy US 62 / 180 Mile Market GS TAKEN? (Circle One) LTER TEST? (Circle One)	TRANS TYPE Up at the Generator's site lister IGNATURE DISPOSA TANK E nches	DATE SPORTER Driver's Name Print Name Phone No. Truck No. In above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 BOTTOMS BS&W/BB	SIGNATURE Peter Deliver's Signature RECEIVING AREA Name/No.
Transporter's Name Address Phone No. Transporter Ticket # I hereby certify that the above named SHIPMENT DATE TRUCK TIME S IN: OU Site Name/ Permit No. 6601 Hobbs H NORM READIN PASS THE PAINT FI Feet Feet Feet Transporter's Feet Feet	material(s) was/were picked ORIVER'S STAMP T: Facility / NIM1-006 Iwy US 62 / 180 Mile Market GS TAKEN? (Circle One) LITER TEST? (Circle One) sterial has been (circle one):	TRANS Trucking Up at the Generator's site lister IGNATURE DISPOSA TANK E NO TANK E ACCEPTED DATE	DATE SPORTER Driver's Name Print Name Phone No. Truck No. In above and delivered without in DELIVERY DATE AL FACILITY Phone No. If YES, was reading > 50 BOTTOMS BS&W/BB Tot	SIGNATURE SIGNATURE Peter Deliver's Signature RECEIVING AREA Name/No. Signature Signature No. Signature Signature Signature

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Name David Burd Phone No.

		GENERATOR		NO.H	W- 717	7074
Generator Manifest #		Location Lease/W	of Origin			*
Generator Name	0	Name &	No.	CUDITA	CTB	
Address		County API No.		2421529493	3	
City, State, Zip		Rig Nam	0 011101	87551001		
Phone No.	EXEMPT E&P Waste/Service Identifi	AFE/PO I		in barrels or cubic var	ds)	
Oil Based Muds Oil Based Cuttings	NON-INJECTAB	LE WATERS		THER EXEMPT E&P WAST		
Water Based Muds Water Based Cuttings	Washout Water Completion Fluid Produced Water	d/Flow Back (Non-Injectable)				
Produced Formation Solids Tank Bottoms	Gathering Line V	Vater/Waste (Non-Injectable)		Bellydomp		
E&P Contaminated Soil Gas Plant Waste	INTERNAL USE Truck Washout (P SOIL & CALICHE SALES	TOP SOIL	CALICHE
WASTE GENERATION PROCESS	: DRILLING	COMPLETION	PRODUCTION	GATHERIN		
A	NON-E I non-exempt E&P waste must be analys	XEMPT E&P Waste/Service Identific	cation and Amount	lity Corrosivity ado React	ivity	
Non-Exempt Other	The state of the s	sa and so sciott throshold little for		Von-Exempt Waste List		
DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	20	Y - YARDS	E - EA	VCH .
I hereby certify that the above listed packaged, and is in proper condition	material(s), is (are) not hazardous waste for transportation according to applicable	as defined by 40 CFR Part 261 or an	y applicable state law. T	hat each waste has been	properly described	l, classified and
RCRA EXEMPT:	Oil field wastes generated from oil per load basis only)		operation and are not m	nixed with non-exempt wa	este (R360 Accepts	certifications on a
RCRA NON-EXEMPT:	Oil field waste which is non-hazard	ous that does not exceed the minim	um standards for waste	hazardous by characteris	tics established in	RCRA regulations,
	40 CFR 261.21-261.24, or listed haz waste as non-hazardous is attached	d. (Check the appropriate items as p	rovided)	_		
☐ EMERGENCY NON-OILFIELD	MSDS Information Emergency non-hazardous, non-oilfi	RCRA Hazardous Wa			Provide Description	
	determination and a description of	the waste must accompany this form	n)	ne salety file sides, docum	mentation of non-in	azardous waste
(PRINT) AUTHORI	ZED AGENTS SIGNATURE	DATE		SIGNATURE		
Transporter's	T 44	TRANSPORTE				
Name ————————————————————————————————————	Tex Mex	Driver's N	-	nelio		
Phone No.		Print Nan Phone No).			
Transporter Ticket #	material(s) was/were picked up at the G	Truck No.		to the disperal facility list	old balance	
		11-18-	74			
SHIPMENT DATE TRUCK TIME S	DRIVER'S SIGNATURE	DISPOSAL FACIL	ELIVERY DATE	RECEIVIN	ER'S SIGNATURE	
IN:OL	Jan 1987	DIOI OUAL I AGIL		ne/No	78	
Site Name/	Facility / NM1-006	4.0.00				
	lwy US 62 / 180 Mile Marker 66 Carlsba	Phone No	575-392-	-0308		
	IGS TAKEN? (Circle One) YES	NO If YES, wa	as reading > 50 micro	roentgents? (Circle On	e) YES	NO
PASS THE PAINT F	ILTER TEST? (Circle One) YES	NO NO				
Feet	Inches	TANK BOTTOM	S			
st Guage 2nd Guage			BS&W/BBLS Rece Free V		BS&W (%)	
eceived			Total Rece			
ereby certify that the above load ma	aterial has been (circle one)) ACC	CEPTED 1 DENIED	// // denied, wh	iv?	,	
THE PROPERTY OF THE PARTY OF TH		7 1	A VI	The		

(PLEASE PRINT)

REQUIRED INFORMATION

Company Man Contact Information Name David Byrd Phone No.

	GEN	ERATOR	NO.HW- 717394
Generator Manifest #		Location of Origin	121004
Generator Name XTO		Lease/Well Name & No.	TRU DI IACTB
Address		County	301558488
City, State, Zip			1082551001
Phone No.		AFE/PO No.	
	Waste/Service Identification and Amou	int (place volume next to waste	
Oil Based Muds Oil Based Cuttings	NON-INJECTABLE WATERS Washout Water (Non-Injectable)		OTHER EXEMPT E&P WASTE STREAMS
Water Based Muds Water Based Cuttings	Completion Fluid/Flow Back (Non-In- Produced Water (Non-Injectable)	njectable)	
Produced Formation Solids Tank Bottoms	Gathering Line Water/Waste (Non-	Injectable)	Bellyduno
E&P Contaminated Soil Gas Plant Waste	INTERNAL USE ONLY Truck Washout (exempt waste)	YES NO	TOP SOIL & CALICHE SALËS QUANTITY TOP SOIL CALICHE
	DRILLING COMPLETION	☐ PRODUCTION	GATHERING LINES
	NON-EXEMPT E&P Waste	/Service Identification and Amount	
Non-Exempt Other All non-exempt E	&P waste must be analysed and be below the		nitability, Corrosivity adn Reactivity. rom Non-Exempt Waste List on back
DISPOSAL QUANTITY	B - BARRELS	L-LIQUID 2	
			law. That each waste has been properly described, classified and
packaged, and is in proper condition for transportati	on according to applicable regulation.		
RCRA EXEMPT: Oil field w	astes generated from oil and gas exploration asis only)	and production operation and are	not mixed with non-exempt waste (R360 Accepts certifications on a
RCRA NON-EXEMPT: Oil field w	vaste which is non-hazardous that does not e	xceed the minimum standards for v	waste hazardous by characteristics established in RCRA regulations, D, as amended. The following documentation demonstrating the
waste as	non-hazardous is attached. (Check the approp	priate items as provided)	
MSDS Inf	0237775124	A Hazardous Waste Analysis	Other (Provide Description Below) f Public Safety (the order, documentation of non-hazardous waste
determina	ition and a description of the waste must acc	company this form)	i Public Safety (the order, documentation of non-nazardous waste
(PRINT) AUTHORIZED AGENTS SIGNA	TURE	DATE	SIGNATURE
		SPORTER	SIGNATURE
Transporter's Name Sem Tex M	ex	Driver's Name	Tornelia
Address		Print Name	5) 11() . 5
Phone No. Transporter Ticket #		Phone No.	2
I hereby certify that the above named material(s) wa	s/were picked up at the Generator's site liste	Truck Noed above and delivered without inci	ident to the disposal facility listed below.
SHIPMENT DATE	DRIVER'S SIGNATURE	1118-24	
TRUCK TIME STAMP		AL FACILITY	DRIVER'S SIGNATURE RECEIVING AREA
IN: OUT:	· Didi odr		Name/No.
Site Name/			MACATAL
Halfway Facility / NI Address Halfway Facility / NI	M1-006 D Mile Marker 66 Carlsbad, NM 88220	Phone No. 575-	392-6368
NORM READINGS TAKEN? (If VES, was reading > 50 r	micro roentgents? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (ii 125, was reading > 501	more reentgents: (circle one) 123 No
970	TANK E	BOTTOMS	
Pet Guage Feet	Inches	BS&W/BBLS	Received BS&W (%)
2nd Guage			
			ree Water
Beceived			Received /
ereby certify that the above load material has been	n (circle one): ACCEPTED	Total	

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REQUIRED INFORMATION

Compa	ny Man Contact Information
Name	David Burd

SOLUTIONS							Phone No	
Page	4-1		GENE	RATOR			NO.HW-	17393
Generator Man	ifest #			Location of Lease/Wel		and the same of th		
Generator Na	me XTO			Name & N		RUDI	IACTR	
Address				County	03	015584	78	
				API No.	NA	(PP 242/5	39493	
City, State, Zip	p			Rig Name	& No.	108755100	01	
Phone No.				AFE/PO No				
	EXE	MPT E&P Waste/Ser	vice Identification and Amount		*	type in barrels of	or cubic yards)	
Oil Based Mud	s		N-INJECTABLE WATERS				T E&P WASTE STREAMS	
Oil Based Cutti			shout Water (Non-Injectable)					
Water Based N Water Based C	SPECIE CO.	Con	npletion Fluid/Flow Back (Non-Inje duced Water (Non-Injectable)	ectable)		750 27		
Produced Forma		Gat	hering Line Water/Waste (Non-In)	iectable)		Belly	domp	
Tank Bottoms E&P Contamina	ated Soil		ERNAL USE ONLY	The World		TOP SOIL & CAL	ICHE SALES	THE PERSON NAMED IN
Gas Plant Wast	te	Truc	k Washout (exempt waste)	YES	NO	QUANTITY	TOPS	OIL CALICHE
WASTE GENE	RATION PROCESS:	DRILLING	COMPLETION		PRODUCTION		GATHERING LINES	
							Griffielinto Eliteo	
A. Land	All nor	n-exempt E&P waste mu	NON-EXEMPT E&P Waste/S st be analysed and be below thre	ervice Identificat shold limits for to	ion and Amount exicity (TCLP), Ian	nitability. Corrosivi	ty adn Reactivity	
Non-Exempt Ot							Waste List on back	
DISPOSAL QUA	NITITY		- BARRELS					5 5100
				L - LIQUID	0	Y-YARDS)		E - EACH
I hereby certify t	that the above listed mate s in proper condition for t	erial(s), is (are) not hazar	dous waste as defined by 40 CFR	Part 261 or any a	pplicable state la	aw. That each was	ste has been properly de	scribed, classified and
RCRA EX			ted from oil and gas exploration a	and production or	eration and are	not mixed with no	n-exempt waste (R360 A	ccents certifications on a
		per load basis only)	0		oration and are i	not minou with no	ii exempt waste (11000 /	ocepts certifications on a
RCRA NO	N-EXEMPT:	Oil field waste which is	non-hazardous that does not exc	eed the minimum	standards for w	vaste hazardous by	y characteristics establis	hed in RCRA regulations,
		40 CFR 261.21-261.24,	or listed hazardous waste as defir s is attached. (Check the appropri	ned by 40 CFR, pa	ort 261, subpart [D, as amended. Th	e following documentati	on demonstrating the
		MSDS Information		Hazardous Waste		1	Other (Provide Desc	rintion Relowl
☐ EMERGE	NCY NON-OILFIELD	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	ous, non-oilfield waste that has be	The state of the state of	Cardia Car	Dublic Safatu Itha		
	NOT HON OIL ILLD	determination and a de	scription of the waste must accor	mpany this form)	e Department of	rublic salety (tile	order, documentation o	i non-nazardous waste
	(PRINT) AUTHORIZED A	GENTS SIGNATURE		ATE			SIGNATURE	
Transporter's	/ ~		TRANS	PORTER		_ 1		
Name	Dem le	x Mex		Driver's Nar	ne C	ornelia	7	
Address				Print Name				
Phone No.	-			Phone No.				
Transporter Tick	ket #			Truck No.	0.	2		
I hereby certify the	hat the above named mat	erial(s) was/were picker	d up at the Generator's site listed	above and delive	red without incid	dent to the disposa	al facility-listed below.	
				11-18-)4		10	
SHIPME	NT DATE		SIGNATURE		ERY DATE		DRIVER'S SIGNATUR	
	TRUCK TIME STAI	MP	DISPOSAI	L FACILIT	Υ		RECEIVING AREA	(100
IN:	OUT:					Name/No		VO
City Nigger								
ermit No.	Halfway Fac	ility / NM1-006		Phone No.	575-3	392-6368		
Address	6601 Hobbs Hwy	US 62 / 180 Mile Marke	r 66 Carlsbad, NM 88220	THORE INO.				
3	NORM READINGS	TAKEN? (Circle One)	YES NO	If VEC was	rooding . E0 m	nicro roentgents'	2 (C: - O VEC	NO
90:	PASS THE PAINT FILTE	THE PARTY NAMED IN COLUMN TWO IS NOT THE	YES NO	II IES, Was	reading > 50 m	ncro roentgents	? (Circle One) YES	NO
17	TASS THE FAINT HETE	TEST: (Circle One)	1					
725	100			<u>OTTOMS</u>				
Wermit No. Address Ste Name/ Wermit No. Address Ste Guage	Feet		Inches		BS&W/BBLS	Received	I DOGUA	//0/1
2nd Guage						ee Water	BS&W	(70)
Beceived						Received		
					_			
Thereby certify the	at the above load materia	al has been (circle one):	ACCEPTED	DENIED	A If denied	d, why?	XI C	/
pa	JIVI	/	111181111	7	The		1100	*
2	ALASTE IDDILLER		-		11/4		X 11 -	
· i	NAME (PRINT)		DATE	1	mre !	>	SIGNATURE	
700 C@northstarfor	NAME (PRINT) rms.com (877)499-0492	White - R360 ORIGINA			ENERATOR SITE	COPY Gold-F	SIGNATURE RETURN TO GENERATOR	308.R360-5240LE rev 08/23

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REQUIRED INFORMATION

Company Man Contact Information Name David Byrd

A				1111	
		GENI	ERATOR	No.HV	V- 717807
Generator Manifest #			Location of Origin		121001
Generator Name			Name & No.	TRU DI 1A C	PB
Address				6年03/1958488	
City, State, Zip				487 2421529493 :1082551001	
Phone No.			Rig Name & No. CC AFE/PO No. —	1080337001	
	EXEMPT E&P Waste/Se	rvice Identification and Amoun		te type in barrels or cubic yards)
Oil Based Muds Oil Based Cuttings	N	N-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE	
Water Based Muds	Co	ashout Water (Non-Injectable) mpletion Fluid/Flow Back (Non-Inj	ectable)		
Water Based Cuttings Produced Formation Solids	Pro Ga	oduced Water (Non-Injectable) thering Line Water/Waste (Non-In	niectable)	Belly dump	
Tank Bottoms E&P Contaminated Soil	IN	TERNAL USE ONLY		TOP SOIL & CALICHE SALES	
Gas Plant Waste		ick Washout (exempt waste)	YES NO	QUANTITY	TOP SOIL CALICHE
WASTE GENERATION PROCESS:	DRILLING	COMPLETION	PRODUCTION	GATHERING	LINES
All	non-exempt E&P waste m	NON-EXEMPT E&P Waste/S	Service Identification and Amounts for toxicity (TCLP)	nt Ignitability, Corrosivity adn Reactiv	ity
Non-Exempt Other		act so analysed and so solow and		from Non-Exempt Waste List o	the same of the sa
DISPOSAL QUANTITY		3 - BARRELS	L-LIQUID	() (Y-YARDS	E - EACH
I hereby certify that the above listed r	naterial(s), is (are) not haz	ardous waste as defined by 40 CFR	0		
packaged, and is in proper condition f	or transportation accordin	g to applicable regulation.			
NONA EXCIVIFI.	per load basis only)	ated from oil and gas exploration	and production operation and ar	e not mixed with non-exempt was	te (R360 Accepts certifications on a
RCRA NON-EXEMPT:	Oil field waste which	is non-hazardous that does not ex	ceed the minimum standards for	waste hazardous by characteristic t D, as amended. The following do	es established in RCRA regulations,
	waste as non-hazardo	us is attached. (Check the appropriate	riate items as provided)		
C SASSOCALOVADA OUSISIS	MSDS Information		Hazardous Waste Analysis		vide Description Below)
■ EMERGENCY NON-OILFIELD	determination and a	dous, non-oilfield waste that has be description of the waste must acco	een ordered by the Department mpany this form)	of Public Safety (the order, docume	entation of non-hazardous waste
(PRINT) AUTHORIZ	ED AGENTS SIGNATURE		DATE	SIGNATURE	
Transporter's	ntex Mex	IKANS	PORTER	1:5	
Name ————————————————————————————————————	mex ma		Driver's Name	ornelio	
Phone No.			Phone No.		
Transporter Ticket #			Truck No.	72	
I hereby certify that the above named	material(s) was/were pick	ed up at the Generator's site listed		cident to the disposal facility lister	d below.
SHIPMENT DATE	DRIVER*	S SIGNATURE	11-18-14 DELIVERY DATE	DRIVER	'S SIGNATURE
TRUCK TIME S	TAMP	DISPOSA	L FACILITY	RECEIVING	G AREA
IN:OU	T:			Name/No.	
Site Name/	Hite / BIRMs coc		4	And the second	
	acility / NM1-006 wv US 62 / 180 Mile Mark	er 66 Carlsbad, NM 88220	Phone No. <u>578</u>	5-392-6368	
	GS TAKEN? (Circle One		If VEC was reading a E0	miero recetantes (Circle One	NEC NO
2.7 V 2.4 180 19 C/2 C 2 18 18 18 18 18 18 18 18 18 18 18 18 18	LTER TEST? (Circle One		ii TES, was readility > 50	micro roentgents? (Circle One) YES NO
			OTTOMS		
Feet		Inches	The second secon		
est Guage 2nd Guage			BS&W/BBL	S Received Free Water	BS&W (%)
eceived				al Received	
hereby certify that the above load ma	terial has been (circle one	: ACCEPTED.		ied, why?	
Hagonda	D Countries one	11/12/24	AM	The state of the s	
NAME (PRINT)	1	DATE	TITLE	SIG	NATURE

Company Man Contact Information	
Name David Bord	

ENVIRONMENTAL SOLUTIONS		(PI	LEASE PRINT)	*REQUIRED II	NFORMATION*	Phone No	
		GE	NERATOR			HW- 71	7716
Generator Manifest # Generator Name Address	XTO		Location of Lease/Well Name & No County API No.	JRV	DI/A-C	TB	7
City, State, Zip Phone No.			API No.* Rig Name & AFE/PO No.		< 1082	55/00/	
		Service Identification and Ar	mount (place volume r				
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	>	NON-INJECTABLE WATERS Washout Water (Non-Injectable Completion Fluid/Flow Back (No Produced Water (Non-Injectable Gathering Line Water/Waste (Non-Injectable NTERNAL USE ONLY	on-Injectable) e) Non-Injectable)		OP SOIL & CALICHE SA	Dump	
Gas Plant Waste WASTE GENERATION PROCESS		Fruck Washout (exempt waste)		NO DODUCTION	QUANTITY	TOP SOIL	CALICHE
WASTE GENERATION PROCESS	: DRILLING	COMPLETIC		RODUCTION	☐ GATHE	RING LINES	
A Non-Exempt Other	II non-exempt E&P waste	NON-EXEMPT E&P Wareness be analysed and be below		cicity (TCLP), Ignita	ability, Corrosivity adn R o Non-Exempt Waste		
DISPOSAL QUANTITY		B - BARRELS	L - LIQUID	20	Y - YARDS	E-E	ACH
packaged, and is in proper condition RCRA EXEMPT: RCRA NON-EXEMPT: EMERGENCY NON-OILFIELD	Oil field wastes ger per load basis only) Oil field waste whic 40 CFR 261.21-261. waste as non-hazar MSDS Information Emergency non-haz determination and a	erated from oil and gas explored in the control of	not exceed the minimum as defined by 40 CFR, par propriate items as provi RCRA Hazardous Waste has been ordered by the t accompany this form)	standards for was t 261, subpart D, a ded) Analysis	ste hazardous by charact as amended. The follow Oth ublic Safety (the order, d	teristics established in ing documentation de er (Provide Description locumentation of non-	n RCRA regulations monstrating the n Below)
(PRINT) AUTHORI	ZED AGENTS SIGNATURE	TDA	DATE		SIGNATUI	BE	
Address Phone No. Fransporter Ticket # hereby certify that the above named SHIPMENT DATE	1		11-18 2	31	1	r listed below.	
TRUCK TIME S	STAMP	DISPO	SAL FACILIT	Υ	RECEI	VING AREA	
IN: OL	JT:			100	ame/No	78	
ddress 6601 Hobbs NORM READIN	Facility / NM1-006 Hwy US 62 / 180 Mile Ma NGS TAKEN? (Circle On PILTER TEST? (Circle On		Phone No. If YES, was r		2-6368 ro roentgents? (Circle	One) YES	NO
		TANI	BOTTOMS				
st Guage Feet		Inches		BS&W/BBLS Re	eceived I	BS&W (%)	
nd Guage			-	Free	Water		
eceived				Total Re	eceived		

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NAME (PRINT)
98 138
Sonc@northstarforms.com (877)499-0492

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REQUIRED INFORMATION

Company Man Contact Informa	ation
Name David Bya.	d

SULUTIONS C		and the second second			Horic IVO.	
		GENE	RATOR	NO.	W- 717719	
Generator Manifest #	v-1)	1	Location of Origin _ Lease/Well	XIO	-0	
Generator Name	110		Name & No. JR_	DI /A- C	10	
Address			County API No.	NAPP 242	1529493	
City, State, Zip			Rig Name & No.	CC 10875	5/00/	
Phone No.	TYPN ADT EQ D VA/coto //	Paris Harriff of a set of the set	AFE/PO No	A - 6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
Oil Based Muds		Service Identification and Amoun NON-INJECTABLE WATERS	t (place volume next to was	OTHER EXEMPT E&P WAS		
Oil Based Cuttings Water Based Muds		Washout Water (Non-Injectable) Completion Fluid/Flow Back (Non-Inj	oeteble)			
Water Based Cuttings Produced Formation Solids		Produced Water (Non-Injectable)		Bully F) V 0	
Tank Bottoms		Gathering Line Water/Waste (Non-In NTERNAL USE ONLY	jectable)	TOP SOIL & CALICHE SALE		
E&P Contaminated Soil Gas Plant Waste		Truck Washout (exempt waste)	YES NO	QUANTITY	TOP SOIL CALICHE	
WASTE GENERATION PROCESS:	☐ DRILLING	COMPLETION	☐ PRODUCTIO	N ☐ GATHERI	NG LINES	
All	non-exempt F&P waste	NON-EXEMPT E&P Waste/S must be analysed and be below three	Service Identification and Amou	nt Ignitability Corresivity ada Rea	ctivity	
Non-Exempt Other	non exempt Lear Waste	must be analysed and be below the	The second second second second	from Non-Exempt Waste Lis		
DISPOSAL QUANTITY		B - BARRELS	L-LIQUID 2	Y - YARDS	E - EACH	
I hereby certify that the above listed i	naterial(s), is (are) not h	azardous waste as defined by 40 CFR	Part 261 or any applicable sta	e law. That each waste has bee	en properly described, classified and	
packaged, and is in proper condition t RCRA EXEMPT:	Oil field wastes ger	nerated from oil and gas exploration	and production operation and a	re not mixed with non-exempt v	waste (R360 Accepts certifications on a	
RCRA NON-EXEMPT:	per load basis only Oil field waste which		ceed the minimum standards fo	r waste hazardous by character	istics established in RCRA regulations,	
(40 CFR 261.21-261.	24, or listed hazardous waste as defi dous is attached. (Check the appropri	ined by 40 CFR, part 261, subpa	rt D, as amended. The following	g documentation demonstrating the	
	MSDS Information		Hazardous Waste Analysis	Other	(Provide Description Below)	
☐ EMERGENCY NON-OILFIELD		ardous, non-oilfield waste that has bardescription of the waste must acco		of Public Safety (the order, doc	cumentation of non-hazardous waste	
	dotomination and	a description of the waste must acco	inpany and form,			
(PRINT) AUTHORIZ	ED AGENTS SIGNATURE		DATE	SIGNATURE		
Transporter's	T. 11.	TRANS	PORTER	,		
NameAddress	1Cx Mex			ene Corre		
Phone No.	Print Name Phone No.					
Transporter Ticket #			Truck No.	14		
I hereby certify that the above named	material(s) was/were pi	cked up at the Generator's site listed	above and delivered without i	ncident to the disposal facility-li	isted below.	
SHIPMENT DATE	DRIV	ER'S SIGNATURE	DELIVERY DATE	DF	RIVER'S SIGNATURE	
TRUCK TIME S	TAMP	DISPOSA	L FACILITY	RECEIVI	NG AREA	
IN: 0U	T:			Name/No	10	
Site Name/	acility / NM1-006		E7	E-202-6260		
		arker 66 Carlsbad, NM 88220	Phone No. <u>57</u>	5-392-6368		
A STATE OF THE STA	GS TAKEN? (Circle Or	ne) YES NO	If YES, was reading > 5) micro roentgents? (Circle (One) YES NO	
TO CHARLEST THE RESIDENCE AND A STATE OF THE PARTY OF THE	LTER TEST? (Circle Or		n ree, nac todanig r c	, more recongenies (energ	110	
		TANK B	OTTOMS	*		
st Guage Feet		Inches	The second second	LS Received	BS&W (%)	
2nd Guage			DGQVV/BB	Free Water	DOGAV (707	
eceived			То	tal Received		
hereby certify that the above load ma		ne): ACCEPTED	DENIED If de	nied, why?	9	
NAME (PRINT)	9.	11 18 Cu	TITLE		SIGNATURE	
		A STATE OF THE STA	100		ALL PLANTS	



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 21, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Reported: 08/21/2024

Project Name: JRU DI 1A BATTERY
Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 08/09/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 01 0.5' (H244957-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	8600	16.0	08/19/2024	ND	416	104	400	7.41	
TPH 8015M	### Result Reporting Limit ### Result Reporting Limit ### Result Reporting Limit ### Result Reporting Limit Column	Analyze	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS 02 0.5' (H244957-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	7730	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Reported: 08/21/2024

Project Name: JRU DI 1A BATTERY

Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669 Sampling Date: 08/09/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: SS 03 0.5' (H244957-03)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	336	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS 04 0.5' (H244957-04)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	112	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Reported: 08/21/2024

Project Name: JRU DI 1A BATTERY
Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 08/09/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 05 0.5' (H244957-05)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS 06 0.5' (H244957-06)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	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	368	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	77.4	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	6 49.1-14	8						

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Celeg D. Freene



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



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

Company Name: Ensolum, LLC	, LLC	BILL TO	ANALYSIS REQUEST	
Project Manager: Tracy Hillard	ırd	P.O. #:		
Address: 3122 National Parks Hwy	arks Hwy	company: XTO Energy Inc.	Inc.	
city: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
Phone #: 575-937-3906		Address: 3104 E. Green St.	n St.	
Project #: : 03C1558488	8 Project Owner: XTO	city: Carlsbad		
Project Name: JRU DI	JRU DI 1A Battery	State: NM Zip: 88220		
in:	32.37996, -103.88669	Phone #:		
Sampler Name: Jesse Dorman	an	Fax #:		
FOR LAB USE ONLY		PRESERV. SAMPLING	NG	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH CHLORIDE	
1055	~ \	he/6/5 /	Chris	
2035			1 20:0	
1.35 ×		i,	08:01	
9055 0	+	+	0:25	
PLEASE NOTE: Liability and Damages. Cardinal analyses. All claims including those for negligenosen/de. In no event shall cardinal be liable for negligenosen/de. In no event shall cardinal be liable for negligible or supposesors analized out of or relative for negligible or supposesors.	id client's exclusive remedy for any claim arising whether by other cause whatsoever shall be deemed walved unless ma onsequental diamages, including without lientation, business aroun of sendings home under by Caudina's remarkless of when aroun of sendings home under by Caudina's remarkless of when	Istact or tort, shall be limited to the amount paid by to grant received by Cardinal within 30 days after com- ors, toss of use, o loss of profits incurried by client, fairn is besed upon any of the above stated reasons	he client for the pplicable to substitute the client for the applicable to substitute the substitute to compare to compar	
Relinquished By:	Date: Received By:	THE REPORT OF THE PARTY OF THE	Verbal Result:	
Relinquished By:	Date: Received By:		REMARKS: Cost Center: 1082551001 Incident ID: nAPP2421529493	
Delivered By: (Circle One)		n CHECKED BY: (Initials)	ard C B	c
Sampler - UPS - Bus - Other:	Corrected Temp. C 72	8	13 to 100 Types Types	



October 23, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 15:27.

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. Keene

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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Reported: 10/23/2024

Project Name: JRU DI 1A BATTERY
Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 10/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH01 1' (H246446-01)

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	10/22/2024	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	10/22/2024	ND	2.00	99.9	2.00	2.61	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.02	101	2.00	2.44	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.09	102	6.00	2.01	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	2120	16.0	10/23/2024	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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Celey D. Keene



10/22/2024

Alyssa Parras

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date:

Reported: 10/23/2024 Sampling Type: Soil
Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact

Project Name: JRU DI 1A BATTERY Sampling Condition:
Project Number: 03C1558488 Sample Received By:

Project Location: XTO 32.37996-103.88669

Sample ID: PH01A 2' (H246446-02)

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	10/22/2024	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	10/22/2024	ND	2.00	99.9	2.00	2.61	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.02	101	2.00	2.44	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.09	102	6.00	2.01	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/23/2024	ND	416	104	400	3.77	
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	18						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Reported: 10/23/2024

Project Name: JRU DI 1A BATTERY

Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669 Sampling Date: 10/22/2024

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: PH02 1' (H246446-03)

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	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	1520	16.0	10/23/2024	ND	448	112	400	3.64	QM-07
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Reported: 10/23/2024

JRU DI 1A BATTERY

Project Name: JRU DI 1A BA Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 10/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH02A 2' (H246446-04)

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	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	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	10/23/2024	ND	448	112	400	3.64	
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date: 10/22/2024

Reported: 10/23/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS07 0.5' (H246446-05)

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	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	240	16.0	10/23/2024	ND	448	112	400	3.64	
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

R-07 The Reporting Limit for this analyte has been raised to account for target analyte concentration in the solvent.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 882

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

Company Name	Company Name: Ensolum, LLC	TAX (3/3) 333-24/0	2410			
Project Manager:	EMOJE	Morrisser	3	P.O. #:		ANALYSIS REQUEST
Address: 3122	Address: 3122 National Parks Hwy			Company: XTD E	meran he	
City: Carlsbad		State: NM	Zip: 88220	ltos!		
Phone #: 33:	4058452-4	7 Fax #:		ess: 31,04 E	locares.	
Project #: 03	98785S12	Project Owner:	er:	5		
Project Name:	TA MIC	A BARRY		M	07.0	
Project Location:	n.)			#		
Sampler Name:	Sharele P	Salvano		Fax #:		
FOR LAB USE ONLY				SERV.	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL \ OTHER:	BTEX TPH Chloric	
U -	POHO	2	-×	×	STAMON: 48 + + +	
N	20407	2-	90,		Ø1:3S	
Λ.	Foss	0.5	60	1 1 1 1 1 1 1 1 1 1	Spaler 10: Sq 1 1 1 1	
7€	PHO1C	12	××	K Drily	OR:SZX X X	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PLEASE NOTE: Liability and Damages analyses. All claims including those for service. In no event shall Cardinal be liab affiliates or successors arising out of or r	d Damages. Cardinal's liability and g those for negligence and any oth irdinal be liable for incidental or con g out of or related to the performan	client's exclusive remedy for a er cause whatsoever shall be isequental damages, including ice of services hereunder by C	T-LEASE NOTE: Lebtiny and Damages. Cardinal's liability and client's exclusive temesty for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 20 days after completion of the applicable service. In no event shall Cardinal be liable for incledental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by the client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardess or whether such claim is based upon any of the above stated reasons or characteristics.	or tort, shall be limited to the amount paic d received by Cardinal within 30 days after loss of use, or loss of profits incurred by cl is based upon any of the above stated reads	by the client for the completion of the applicable lient, its subsidiaries, seems or otherwise.	
Relinquished By: Relinquished By:	will i	Pate: Pate:	Received By:	8	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: REMARKS:	Add'I Phone #: ovide Email address:
Delivered Br. (C.		Time:			+mornsseyBense	scurbonsonum. rom, Khomosona euso
Sampler - UPS - Bus - Other:		Corrected Lamp, of	Sample Condition Cool Intact Cool Intact Pres Pres No I No I No	CHECKED BY: (Initials)	Turnaround Time: Standard Rush Thermometer ID #445# 1400 Correction Factor 0-5°C-0: (1)	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C
The state of	S.E. FOROSTE.	+ 0-1		E		1 100



November 11, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

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. Keene

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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Reported: 11/11/2024

Project Name: JRU DI 1A BATTERY
Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 2' (H246798-01)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/11/2024	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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	131 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 02 2' (H246798-02)

RTFY 8021R

Result < 0.050	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050					· · · · · · · · · · · · · · · · · · ·	-		Quac.
	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
<0.300	0.300	11/09/2024	ND					
96.8	% 71.5-13-	4						
mg/kg		Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
368	16.0	11/11/2024	ND	432	108	400	3.64	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/08/2024	ND	205	102	200	3.82	
<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
<10.0	10.0	11/08/2024	ND					
125 9	26 48.2-13	4						
		•						
	368 mg/ Result <10.0 <10.0 <10.0	Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	368 16.0 11/11/2024 mg/kg Analyze Result Reporting Limit Analyzed <10.0	368 16.0 11/11/2024 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	368 16.0 11/11/2024 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	368 16.0 11/11/2024 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	368 16.0 11/11/2024 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	368 16.0 11/11/2024 ND 432 108 400 3.64 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558488 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 03 2' (H246798-03)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	121 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 04 2' (H246798-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 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	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 05 2' (H246798-05)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 06 2' (H246798-06)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 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	208	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 07 2' (H246798-07)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	< 0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil
Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact

Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 08 2' (H246798-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 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	368	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil
Project Name: JRU DI 1A BATTERY Sampling Condition: Coo

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 09 2' (H246798-09)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
<0.300	0.300	11/09/2024	ND					
97.9	% 71.5-13	4						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
160	16.0	11/11/2024	ND	432	108	400	3.64	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/08/2024	ND	205	102	200	3.82	
<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
<10.0	10.0	11/08/2024	ND					
127 9	% 48.2-13	4						
111 9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 97.9 mg/ Result 160 mg/ Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 97.9 % 71.5-13 mg/kg Result Reporting Limit 16.0 mg/kg Result Reporting Limit 16.0 16.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <p< td=""><td><0.050</td> 0.050 11/09/2024 <0.050</p<>	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 10 2' (H246798-10)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	192	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 11/07/2024
 Sampling Date:
 11/05/2024

 Reported:
 11/11/2024
 Sampling Type:
 Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 11 2' (H246798-11)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 12 2' (H246798-12)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	80.0	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 13 2' (H246798-13)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	224	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 14 2' (H246798-14)

BTEX 8021B

DILX OUZID	11197	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 15 2' (H246798-15)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: FS 16 2' (H246798-16)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: FS 17 2' (H246798-17)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558488 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: FS 18 2' (H246798-18)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

Sample ID: SW 01 0-2' (H246798-19)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	205	102	200	3.82	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sample ID: SW 02 0-2' (H246798-20)

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	11/09/2024	ND	2.09	105	2.00	7.83	
Toluene*	<0.050	0.050	11/09/2024	ND	2.00	100	2.00	7.21	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.00	99.9	2.00	6.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.88	98.0	6.00	7.57	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	204	102	200	0.130	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	184	91.8	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 11/07/2024
 Sampling Date:
 11/05/2024

 Reported:
 11/11/2024
 Sampling Type:
 Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 03 0-2' (H246798-21)

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	11/08/2024	ND	2.10	105	2.00	7.93	
Toluene*	<0.050	0.050	11/08/2024	ND	2.16	108	2.00	7.75	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.16	108	2.00	7.36	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.42	107	6.00	7.43	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/11/2024	ND	432	108	400	3.64	
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	11/08/2024	ND	204	102	200	0.130	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	184	91.8	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/11/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558488 Tamara Oldaker

Project Location: XTO 32.37996-103.88669

Sample ID: SW 04 0-2' (H246798-22)

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	11/08/2024	ND	2.10	105	2.00	7.93	
Toluene*	<0.050	0.050	11/08/2024	ND	2.16	108	2.00	7.75	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.16	108	2.00	7.36	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.42	107	6.00	7.43	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/11/2024	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	11/08/2024	ND	204	102	200	0.130	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	184	91.8	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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FORM-006 R 3.2 10/07/21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	Ensolum, LLC			BILL TO		ANAI YSIS RI	RECHEST
Project Manager:	Project Manager: Tacoma Morrissey	У		P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy	wy		Company: XTO Energy Inc.	gy Inc.		
city: Carlsbad		State: NM	Zip: 88220	Attn: Colton Brown			
Phone #: 337-2	337-257-8307	Fax #:		Address: 3104 E. Gr	Green St.		
Project #: 03C1	03C1558488	Project Owner:	mer: XTO	city: Carlsbad			
Project Name:	JRU DI 1A Battery	tery		State: NM Zip: 88220	20		
Project Location:	32.37996, -103.88669	88669		- 1			
Sampler Name: Jesse Dorman	esse Dorman			Fax #:			
FOR LAB USE ONLY			MATRIX	SERV.	SAMPLING		
Lab I.D.	Sample I.D.	Sample Depth (feet)	AB OR (C)OMP NTAINERS JNDWATER FEWATER	BASE:			
4341PA			# CON	OTHE ACID/OTHE DATE	BTI		
2	1057	بو	4	/	1/ P16		
L Qu	6034				11/ 516		
40	2002				470		
5	8505				040		
16	8506				545		
9	1007	_			950		
90	6027	-			556		
PLEASE NOTE: Liability and Dam	Sec.	*	4	<	1005 x X X		
analyses. All claims including those for neg- service. In no event shall Cardinal be liable affiliates or successors arising out of or relati	ose for negligence and any othe all be liable for incidental or cons to or related to the performance	recause whatsoever shall be de requental damages, including w a of services hereunder by Car	osseria e serial per causa seculare tenera yor any ciam alasing whether based in contract or fort, shall be linked to the am episjence and any other cause whatsoever shall be deemed waived unless made in whiting and received by Cardinal within 30 or the for incidental or consequental clamages, including without linitation, business interruptions, loss of use, or loss of profits incu- sisted to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above :	B 2 5 9.	int paid by the client for the safter completion of the applicable d by client, its subsidiaries, fed reasons or otherwise.		
		11mg: 410 + 124	vecessed by:		- 0	Si	Thillard@ensolum.com
Relinquished By:		Date:	Received By:	anne y	REMARKS: Cost Center:1082551001	Incident ID: r	Incident ID: nAPP2421529493
Delivered By: (Circle One)		Observed Temp. "C	Sample	CHECKED BY:	Turnaround Time: Standard		Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:		Corrected Temp. "C	1.9 Prest Yes	(Initials)		Yes	Observed Temp. °C

Page 25 of 27

Relinquished By:

Received By:

REMARKS:

Cost Center: 1082551001

Incident ID: nAPP2421529493

Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

TMorrissey@ensolum.com,

Thillard@ensolum.com kthomason@ensolum.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

FORM-006 R 3.2 10/07/21

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. "C

DCU

Sample Condition

CHECKED BY:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Mame.	Ensolum, LLC			BILL TO	. 70			ANALYSIS	REQUEST
Project Manager	Project Manager: Tacoma Morrissey			P.O. #:			\dashv		
Address: 3122 I	Address: 3122 National Parks Hwy	y		Company: XTO Energy Inc.	Energy Inc.		_		
city: Carlsbad	d	State: NM Zip:	Zip: 88220	Attn: Colton Brown	rown		_		
Phone #: 337-	337-257-8307	Fax #:		Address: 3104 E. Green St.	E. Green St.				
Project #: 03C	03C1558488	Project Owner:	XTO	city: Carlsbad					
Project Name:	JRU DI 1A Battery	y		State: NM Zin	Zin: 88220		_		
Project Location:	: 32.37996, -103.88669	8669		- 1					
Sampler Name: Jesse Dorman	lesse Dorman			Fax #:			_		
				I GA IF.			_	_	_
FOR LAB USE ONLY		MP.	MATRIX	PRESERV.	SAMPLING				
Lab I.D. HZ46798	Sample I.D.	Sample Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: IGE / COOL OTHER:	DATE TIME	BTEX	TPH		
2	4047	0-21			/// kl/3			000	
83	HOMS	\$ 0	_		1 1215	1	1		
	46								
LEASE NOTE: Liability and I nalyses. All claims including t ervice. In no event shall Card filiates or successors arising o	PLEASE NOTE: Labbly and Damages. Cardina's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 finations, business interruptions, loss of test, or loss of profits incurred by client, its subsidiaries.	int's exclusive remedy for any claim a cause whatsoever shall be deemed w quental damages, including without it of services hereunder by Cardinal, re	arising whether based in contract or fort, shall be limited to the amount p waived unless made in writing and necelved by Cardinal within 30 days at limitation, business interruptions, loss of use, or loss of profits hoursed to recardless of whether such riskins in heavenings.	or fort, shall be limited to the a received by Cardinal within 3 as of use, or loss of profits in	mount paid by the client for to days after completion of the curred by client, its subsidiarie	applicable s.	+		
Relinquished By:		4 Re	Received By:	1110	Verbal Result:	ult: []	. 9,	□No Add'I Phone #:	
Relinquished By:	N	0/4/0	Jana Banda	Mont	BBelilll@ensolum.com	nsolum.co		TMorrissey@ensolum.com,	kthomason@ensolum.com
			Neceived by.		KEMARKS:				

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp, "C

CHECKED BY: (Initials)

Cost Center: 1082551001

Incident ID: nAPP2421529493

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
Yes Yes Corrected Temp. °C



APPENDIX D

October 24, 2024 Remediation Work Plan



October 24, 2024

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

Re: Remediation Work Plan

James Ranch Unit DI 1A Battery Incident Number NAPP2421529493

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 impacted soil identified at the James Ranch Unit DI 1A Battery (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following Work Plan proposes to excavate impacted soil within the top 1 foot of the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.37996°, -103.88669°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On July 26, 2024, a corrosion on a 4-inch tester joint resulted in the release of 15 barrels (bbls) of produced water onto the pad. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on August 9, 2024 and the release was assigned Incident Number NAPP2421529493.

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 on page 3 of the Form C-141, Site Assessment/Characterization. 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 March 2013, a New Mexico Office of the State Engineer (NMOSE) permitted well (C-1916) was advanced to a depth of 188 feet bgs located approximately 0.2 miles southeast 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 581 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church,

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

XTO Energy, Inc. Remediation Work Plan James Ranch Unit DI 1A Battery

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 underlain by unstable geology (high 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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 9, 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 seven delineation soil samples (SS01 through SS07) within 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.

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 (Eurofins) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500

On October 22, 2024, delineation potholes PH01 and PH02 were advanced in the approximate locations of SS01 and SS02, respectively. The delineation potholes were advanced via backhoe to a maximum depth of 4 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 1-foot bgs to 4 feet 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 B. Two delineation soil samples from each pothole, at depths of 1 foot and 2 feet bgs were collected, handled and analyzed as described above at Cardinal in Hobbs, New Mexico. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples SS01/PH01 through SS02/PH02 indicated that chloride concentrations exceeded the Closure Criteria at depths ranging from 0.5 feet to 1 foot bgs. The terminal depth sample from each delineation pothole, collected at 2 feet bgs, indicated concentrations of all COCs were compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil. In addition, laboratory analytical results for delineation soil samples SS03 through SS07 collected outside of the release extent indicated concentrations of all COCs were compliant with the Closure Criteria and successfully defined the lateral extent of the release. Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.



XTO Energy, Inc. Remediation Work Plan James Ranch Unit DI 1A Battery

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 3,450 square foot area and extends to a maximum depth of 2 feet bgs. XTO proposes to complete the following remediation activities:

- Excavation of chloride impacted soil to a depth of 2 feet bgs. Excavation will proceed laterally until sidewall samples confirm chloride concentrations are compliant with the Closure Criteria.
- An estimated 300 cubic yards of chloride impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- 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**

Tacoma Morrissey, MS Associate Principal

Mouissey

cc: Colton Brown, XTO Kaylan Dirkx, XTO

BLM

Ashley Ager, PG, MS Program Director

ashley L. ager

Appendices:

Figure 1 Site Receptor Map

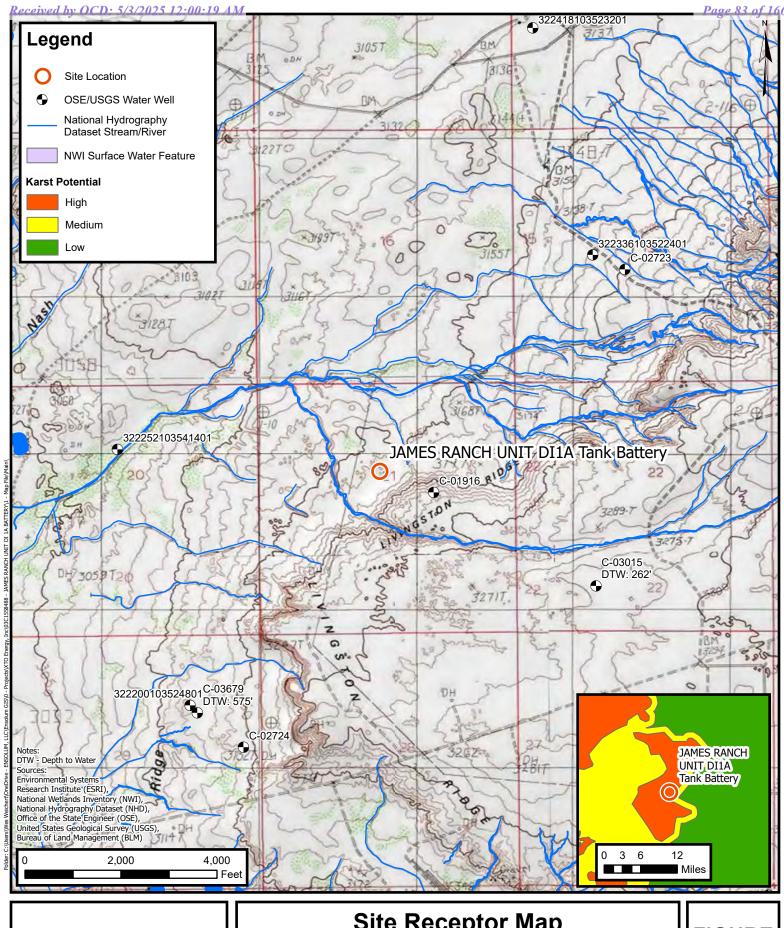
Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic / Soil Sampling Logs

Appendix C Photographic Log

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



FIGURES



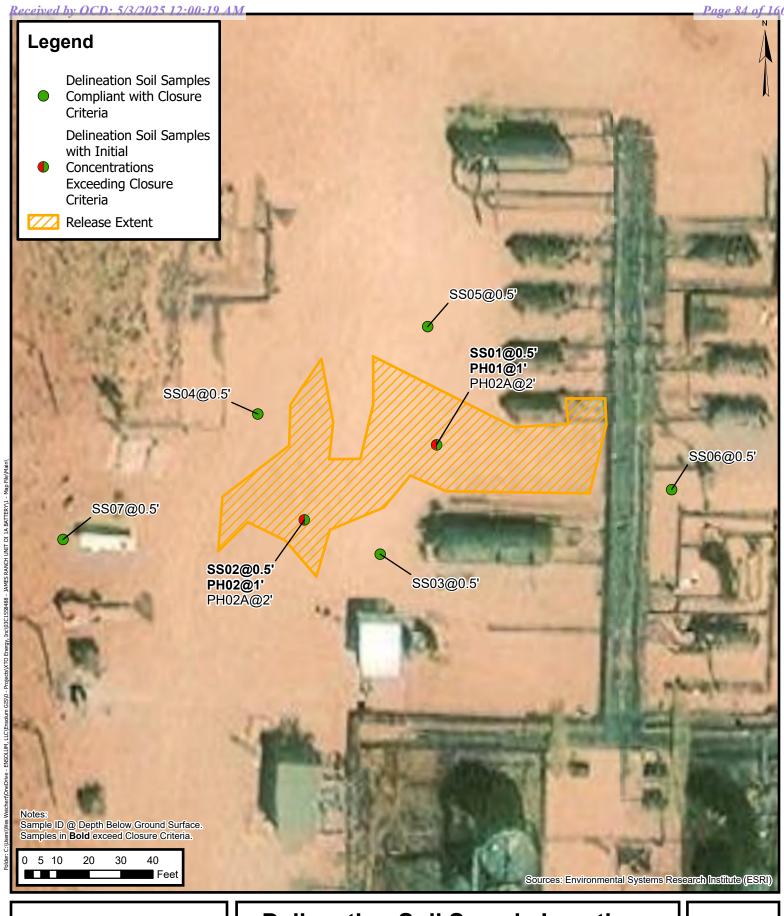


Site Receptor Map

XTO Energy, Inc JAMES RANCH UNIT DI 1A BATTERY Incident Number: NAPP2421529493 Unit A, Sec 21, T22S, R30E Eddy Co, New Mexico, United States

FIGURE

Released to Imaging: 5/22/2025 1:31:15





Delineation Soil Sample Locations

XTO Energy, Inc JAMES RANCH UNIT DI 1A BATTERY Incident Number: NAPP2421529493 Unit A, Sec 21, T22S, R30E Eddy Co, New Mexico, United States FIGURE 2

Released to Imaging: 5/22/2025 1:31:15 PM



TABLES

Received by OCD: 5/3/2025 12:00:19 AM



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS JRU DI 1A BATTERY** 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 1 C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	ineation Soil Sa	amples				
SS01	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,600
PH01	10/22/2024	1	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	2,120
PH01A	10/22/2024	2	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	352
SS02	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,730
PH02	10/22/2024	1	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	1,520
PH02A	10/22/2024	2	< 0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	240
SS03	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS04	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS05	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	8/9/2024	0.5	<0.050	<0.300	<10.0	77.4	<10.0	77.4	77.4	368
SS07	10/22/2024	0.5	<0.050	<0.300	<20.0	<10.0	<10.0	<20.0	<20.0	240

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

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Ensolum

1 of 1



APPENDIX A

Referenced Well Records



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

1. FILING FEE: There is no filing fee for this form.

Existing Office of the State Engineer POD Number (Well Nu	mber) for w	ell to be	plugged:_	C 0	<u> 1916</u>	
Name of well owner: BOPCO L.P.							
Mailing address: P.O. Box 2760							
City: Midland	_ State:	T	exas		Z	ip code:	79702
Phone number: 432-556-8730							
III. WELL DRILLER INFORMATION: Well Driller contracted to provide plugging services: New Mexico Well Driller License No.: WD-14			-	•			
IV. WELL INFORMATION: Note: A copy of the existing Well Record for the we							, 0
GPS Well Location: Latitude: Longitude:	-103	deg,2	3	min, <u>54</u> min, <u>00</u>	.42 sec 0.57 sec	c, NAD.8	EER OF
2) Reason(s) for plugging well:	Water	well is in the	e path of	new consti	ruction. W	ater qual	ity is below
useable quality.						ئد	<u>, m</u>
Was well used for any type of monitoring p what hydrogeologic parameters were mon water, authorization from the New Mexico	itored.	If the well	was use	ed to moni	tor contan	ninated c	or poor quality
4) Does the well tap brackish, saline, or otherw	vise poo	quality wat	ter?	YESI	f yes, prov	vide addit	tional detail,
including analytical results and/or laborator	y report((s): <u>S</u>	See Attac	chments			
5) Static water level: ~110 feet below land	<u>surface</u>	/ feet above	land sur	rface (circ	cle one)		
6) Depth of the well: 188 feet							

Well Plugging Plan Version: December, 2011 Page 1 of 5

> C-1916 465776

7)	Inside diameter of innermost casing: inches.
8)	Casing material: Steel
9)	The well was constructed with:
	UNKWN an open-hole production interval, state the open interval:
	<u>UNKWN</u> a well screen or perforated pipe, state the screened interval(s):
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?
11)	Was the well built with surface casing?UNKWN If yes, is the annulus surrounding the surface casing
	grouted or otherwise sealed? If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
V. DES	SCRIPTION OF PLANNED WELL PLUGGING:
pipe, a	f this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional al information, such as geophysical logs, that are necessary to adequately describe the proposal.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
	proposed for the well: The casing will be cut off below ground surface. A tremie line will be install and a
	Portland Type II/ V Cement grout will be placed from the bottom to within 5' of the surface. A concrete cap will be
	placed from 5' to 1' and the remainder will be filled with soil.
2)	Will well head be cut-off below land surface after plugging?
VI. PL	UGGING AND SEALING MATERIALS:
Note: 7	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface: 20 Sacks
4)	Type of Cement proposed: See Attached Conditions of Approval C. 6 5% Fullers Earth / Type II/V Cement
5)	Type of Cement proposed: See Attached Conditions of Approval C.6 See Attached Conditions of Approval C.6 Proposed cement grout mix: 8 gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be: batch-mixed and delivered to the site
	$X_{\underline{\hspace{1cm}}}$ mixed on site

Well Plugging Plan Version: December, 2011 Page 2 of 5

7)	Grout additives requested, and percent by dry weight relative to cement:Salt	water gel - The use of Fuller's
	Earth is to help with leak-off to the formation. Since the formation water is high in ch	lorides, Volclay Sodium
	Bentonite will not be acceptable. 5 LBS. of Gel per 94 LBS. of cement	
	SEE Attached Conditions of App	aroval CG.
8)	Additional notes and calculations: ((dia.² * 0.005454)*Depth)/ 1.25	5 cuft-bag
<u>VII.</u> 4	ADDITIONAL INFORMATION: List additional information below, or on separate sh	eet(s):
	Public Land Survey is Section 21, Township 22 South, Range 30 East.	()
	done baile baile is section 21, Township 22 South, Runge so bast.	
I,and an pertair	SIGNATURE: Raymond L Straub Jr., P.G. , say that I have carefully read the foregoing Welly attachments, which are a part hereof; that I am familiar with the rules and regulations oning to the plugging of wells and will comply with them, and that each and all of the state of Operations and attachments are true to the best of my knowledge and belief.	of the State Engineer ements in the Well Plugging
		03/28/2013
	CTION OF THE STATE ENGINEER: Vell Plugging Plan of Operations is:	Dastate engineer office
	Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.	offi
	Witness my hand and official seal this day of April	<u>, 13 </u>
	Scott A. Verhines, State Engine By: Lin Williams	er 40

Well Plugging Plan Version: December, 2011 Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

Interval 1 – deepest	Interval 2	Interval 3 – most shallow
		Note: if the well is non-artesian and breaches only one aquifer, use only this column.
	***************************************	5 feet
		188 feet
		20 Sacks
		8 gallons
		On-site
		5% Saltwater Bentonite
		5 LBS.
		40
		STATE ENGINEER OFFICE RIDSWELL PO 1: 19
	Interval I — deepest	Interval 1 – deepest Interval 2

Well Plugging Plan Version: December, 2011 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

STATE ENGINEER OF THE POST OF

Well Plugging Plan Version: December, 2011 Page 5 of 5



STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

Scott A. Verhines, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

April 17, 2013

BOPCO, L.P. P.O. Box 2760 Midland, Texas 79702

RE: Well Plugging Plan of Operations for C-1916

Greetings:

Enclosed is your copy of the Well Plugging Plan for the above referenced project. The attached Conditions of Approval modify your Plan in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted August 31, 2005 by the State Engineer. Should you have any questions about the Plan or Conditions of Approval please do not hesitate to contact our office.

Sincerely,

Catherine Goetz

Water Resource Specialist

District II Office of the State Engineer

Enclosures

cc: Office of the State Engineer Santa Fe

Straub Corporation

Analytical Laboratory Report for: BOPCO



Account Representative: Willis Mossman

Production Water Analysis

Listed below please find water analysis report from: Perry R Bass Wsw, WATER SUPPLY **WELL**

Lab Test Number		Sample Date	
201301003615		02/13/2013	
Specific Gravity: TDS: pH:	1.100 153402 6.65		
Cations	. <u> </u>	mg/L_	
Calcium as Ca" Magnesium as Mg" Sodium as Na' Iron as Fe" Potassium as K' Barium as Ba" Strontium as Sr" Manganese as Mn"		2669 2188 52812 9.49 7466.0 0.28 86.46 0.46	
Anions Bicarbonate as HCO ₃		mg/L 171	
Sulfate as SO ₄ Chloride as Cl		6500 81500	STATE ENG ROSWEIN 2013 APR
Gases		mg/L	R - NGIN
Carbon Dioxide as CO ₂ Hydrogen Sulfide as H ₂ S Lab Comments: SURFACE TEMP.=65.7°F		30 0.0	APR -1 P 1: 19

Analytical Laboratory Report for: BOPCO



Account Representative: Willis Mossman

DownHole SAT[™] Scale Prediction @ 250 deg. F

Lab Test Number	Sample Date	Location	
201301003615	02/13/2013	WATER SUPPLY WELL	
Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)	
Calcite (CaCO3)	0.46	-0.05	
Strontianite (SrCO3)	0.00	-25.80	
Anhydrite (CaSO4)	6.85	1699.09	
Gypsum (CaSO4*2H2O)	1.55	710.25	
Barite (BaSO4)	0.07	-6.67	
Celestite (SrSO4)	0.23	-487.80	
Siderite (FeCO3)	3.44	0.04	
Halite (NaCl)	0.04	-545840.63	
Iron sulfide (FeS)	0.00	-1.34	

Lacation

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.





New Mexico Office of the State Engineer Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 199433

Transaction Desc: C 01916

File Date: 07/31/1980

Primary Status: E

EXP Expired Permit

Secondary Status: EXP

Expired

Person Assigned: mvigil

Applicant: PERRY R. BASS

	_	٠
ve	m	3

Date	Туре	Description	Comment	Processed By
07/31/1980	APP	Application Received	•	mvigil
08/04/1980	FIN ·	Final Action on application		mvigil
08/04/1980	WAP	General Approval Letter		mvigil
09/01/1981	EXP	Expired Permit (well tog late)		mvigil

Change To:

WR File Nbr

Acres

Diversion

Consumptive Purpose of Use

C 01916

3

PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL

**Point of Diversion

RESOURCE

C 01916

605068 3582947*

An () after northing value indicates UTM location was derived from PLSS - see Help

Remarks

WATER SUPPLY WELL FOR THE DRILLING OF JAMES RANCH UNIT #12

Conditions

- 3 Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- 5A A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor for each calendar month on or before the 10th day of the following month.
- The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.

Action of the State Engineer

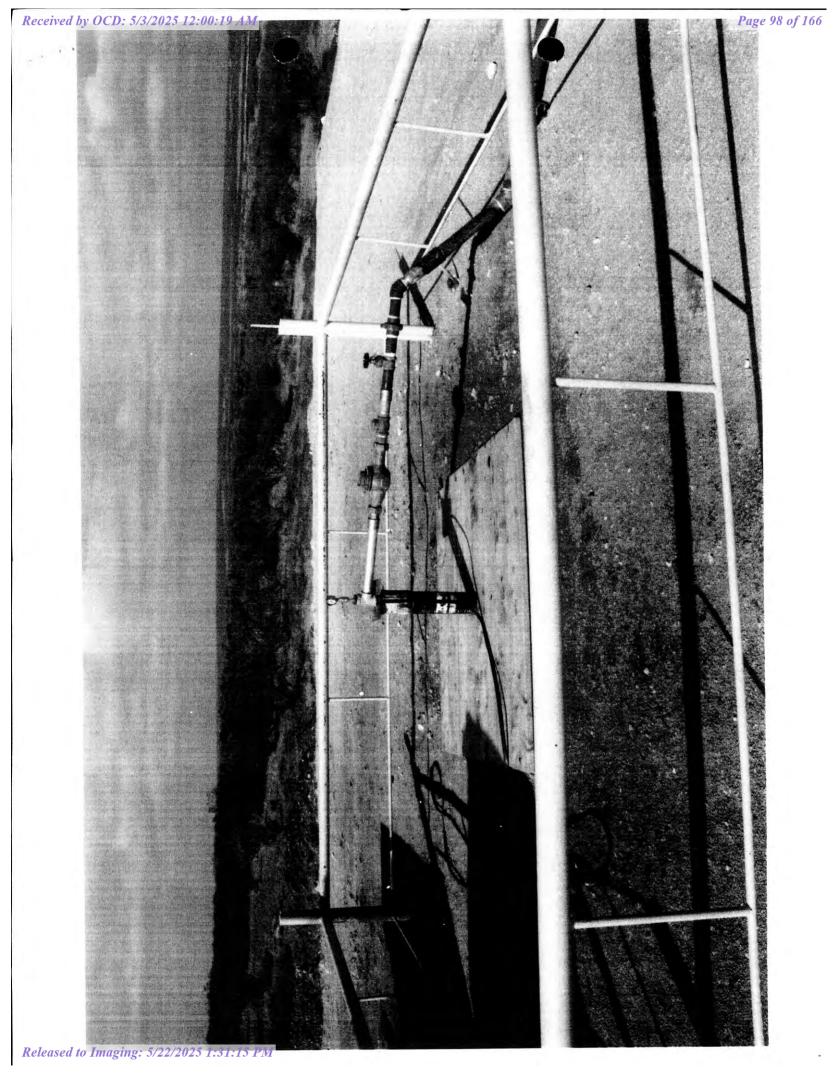
Approval Code: A - Approved Action Date: 08/04/1980 Log Due Date: 08/31/1981

State Engineer:

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

Conditions of Approval for C-1916 abandonment:

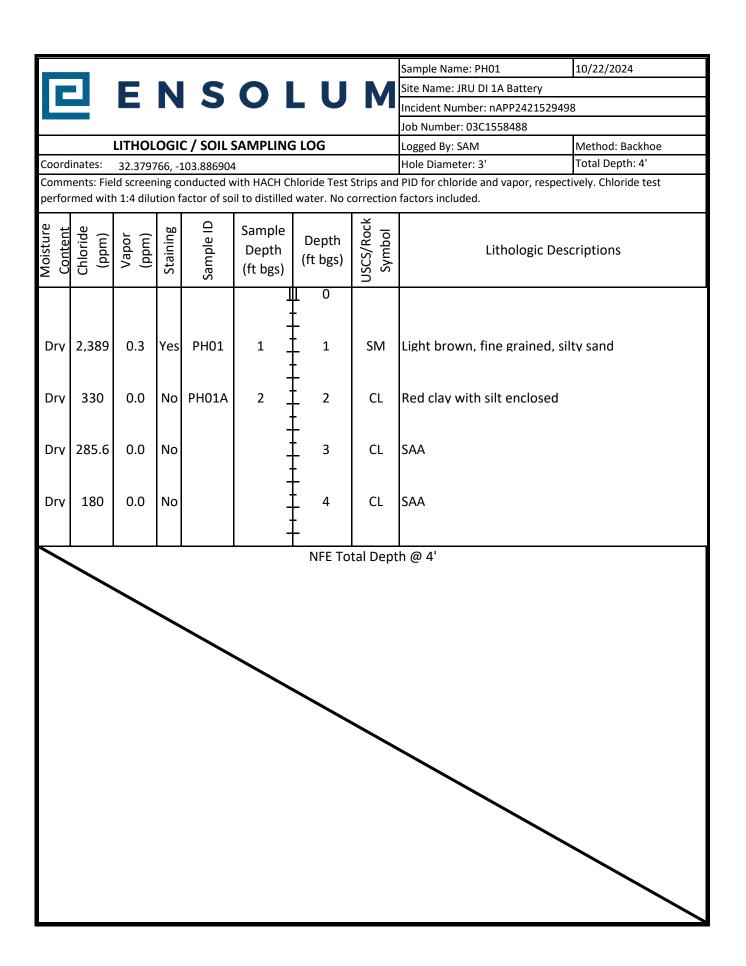
- 1) Plugging operations will be conducted in accordance with NMED, NMOCD, or other State or Federal agency having oversight for the above described project.
- 2) The well shall be plugged using a cement slurry (5.2 gals water per 94lb bag of Portland cement). It is understood that due to the high sulfate content Type V cement will be used as the data provided on water quality indicates 6,500 ppm sulfates. The cement grout will be pumped via tremie line from bottom up.
- 3) By item 2 above, the plan meets OSE requirements for tremie/grout abandonment, however, well records are not available to confirm well design/annular seals.

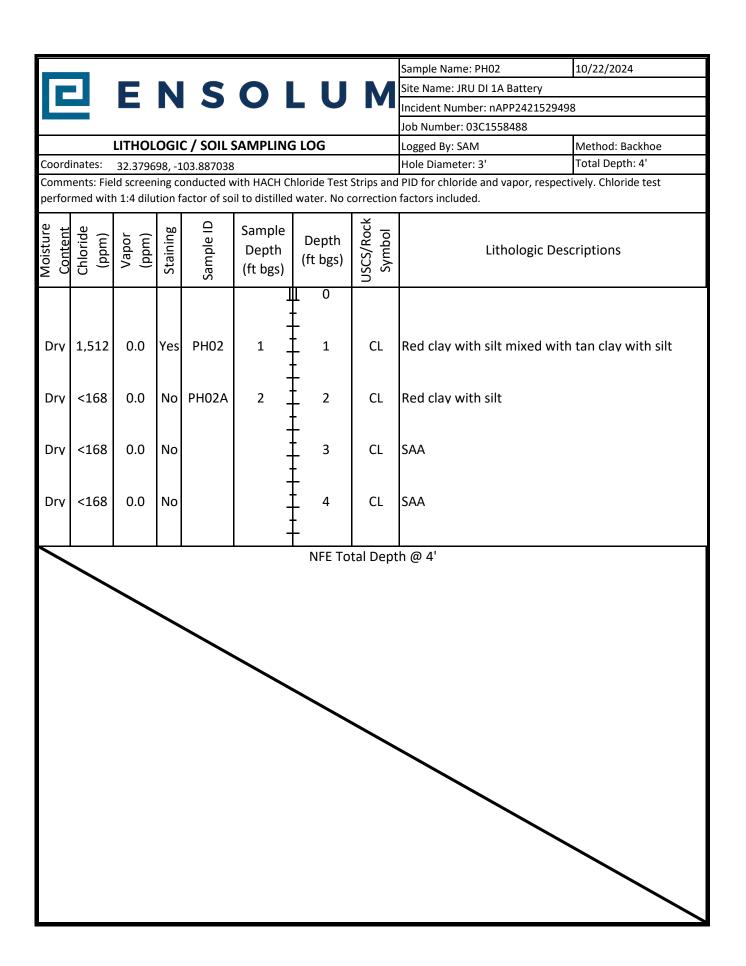




APPENDIX B

Lithologic Soil Sampling Logs







APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.

James Ranch Unit DI 1A Battery
NAPP2421529493





Photograph: 1 Date:8/9/2024

Description: Soil staining in release footprint

View: Southeast

Photograph: 2 Date: 8/9/2024

Description: Active leak View: Northwest





Date: 10/22/2024

Photograph: 3 Date: 10/22/24

Description: Pothole activities View: Southwest Photograph: 4

Description: Remediation activities

View: Northeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 21, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 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 TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Reported: 08/21/2024

Project Name: JRU DI 1A BATTERY Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669 Sampling Date: 08/09/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: SS 01 0.5' (H244957-01)

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	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	8600	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

08/09/2024

Alyssa Parras

Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date:

Reported: 08/21/2024 Sampling Type: Soil
Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact

Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sample ID: SS 02 0.5' (H244957-02)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	< 0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	7730	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.37996-103.88669

mg/kg

Sample ID: SS 03 0.5' (H244957-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	336	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celey D. Keene



08/09/2024

Cool & Intact

Alyssa Parras

Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date:

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition:
Project Number: 03C1558488 Sample Received By:

Project Location: XTO 32.37996-103.88669

Sample ID: SS 04 0.5' (H244957-04)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	< 0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS 05 0.5' (H244957-05)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	18						

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Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558488 Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: SS 06 0.5' (H244957-06)

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	08/17/2024	ND	2.12	106	2.00	2.67	
Toluene*	<0.050	0.050	08/17/2024	ND	2.14	107	2.00	3.11	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.13	107	2.00	3.82	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.63	110	6.00	3.61	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	368	16.0	08/19/2024	ND	416	104	400	7.41	
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	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	77.4	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	Ensolum LLC				BILL	70			ANA	ANALYSIS REQUEST	UEST
Project Manager: Tracy Hillard	: Tracy Hillard				P.O. #:		\dashv		1		
Address: 3122	Address: 3122 National Parks Hwy	vy			Company: XTO Energy Inc.	nergy Inc.	_				
city: Carlsbad	Д	State: NM	Zip: 8	Zip: 88220	Attn: Amy Ruth		_				
e #:	575-937-3906				Address: 3104 E.	Green St.					
	: 03C1558488	Project Owner: XTO	X	0	city: Carlsbad		_				
Project Name:	JRU DI 1A Battery	ery			State: NM Zip:	Zip: 88220	_				
Project Location:	: 32.37996, -103.88669	88669			2 - 2		-				
Sampler Name: Jesse Dorman	Jesse Dorman				Fax #:		_				
FOR LAB USE ONLY			MP.	MATRIX	PRESERV.	SAMPLING					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX TPH	CHLORIDE			
7	(05)	. 5'		_	-	9460 hC/1	1)	1			
700	5035		=			10:05	1	1			
NS	1055		_			10:01	11	1			
61	9055	+	5	<u></u>	+	10:35					
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car efficiency articles.	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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waited unless made in writing and received by Cardinal within 30 days after completion of the applicable in the cause of the completion of the applicable in the centre of the control be liable for incidental or consequence, including willowing the matter, business intemptions, loss of use, or loss of the control by clinical subsidiaries.	lient's exclusive remedy for any ir cause whatsoever shall be de sequental damages, including w	claim ar emed wa without lin	a arising whether based in contract walved unless made in writing an timitation, business interruptions, repositions of whether such claim	or tort, shall be limited to the am f received by Cardinal within 30 on oss of use, or loss of profits incu- is based upon any of the above.	ount paid by the client for the days after completion of the app red by client, its subsidiaries, taken reasons or otherwise.	plicable				
Relinquished By:	inquished By:	Date: 524	Rece	Received By:		Verbal Result: All Results are	t: e emai	Verbal Result: ☐ Yes ☐ VNo ☐ Add'i Phone #: All Results are emailed. Please provide Email address:	Add'	Add'I Phone #: de Email address:	
5	Cas	N Sign)	3		THillard@ensolum.com	nsolum.	com TMorriss	ey@en	TMorrissey@ensolum.com,	
Relinquished By:		Date: Time:	Rece	Received By:		REMARKS: Cost Center: ₁₀₈₂₅₅₁₀₀₁	ter: 1082	2551001	Incide	Incident ID: nAPP2421529493	29493
Delivered By: (Circle One) Sampler - UPS - Bus - Oti	her:	Observed Temp. °C	7.683.	Sample Condition Cool Intact Exes	CHEC		ime:	me: Standard Rush #113 4,40		Bacteria (only) (Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐Yes ☐ Yes
Sampler - UPS - E		* m p.	Si	No	\$	Correction Factor	or 456C	0-0.100		No No	Corrected Temp. °C



October 23, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JRU DI 1A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 15:27.

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. Keene

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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Reported: 10/23/2024

Project Name: JRU DI 1A BATTERY
Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 10/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH01 1' (H246446-01)

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	10/22/2024	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	10/22/2024	ND	2.00	99.9	2.00	2.61	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.02	101	2.00	2.44	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.09	102	6.00	2.01	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	2120	16.0	10/23/2024	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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date: 10/22/2024

Reported: Sampling Type: Soil 10/23/2024

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact Project Number: 03C1558488 Sample Received By: Alyssa Parras

Project Location: XTO 32.37996-103.88669

Sample ID: PH01A 2' (H246446-02)

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	10/22/2024	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	10/22/2024	ND	2.00	99.9	2.00	2.61	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.02	101	2.00	2.44	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.09	102	6.00	2.01	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 5	% 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	352	16.0	10/23/2024	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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celeg D. Freene



Sample Received By:

10/22/2024

Alyssa Parras

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date:

Reported: 10/23/2024 Sampling Type: Soil
Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact

Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sample ID: PH02 1' (H246446-03)

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	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	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	1520	16.0	10/23/2024	ND	448	112	400	3.64	QM-07
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Reported: 10/23/2024

Project Name: JRU DI 1A BATTERY

Project Number: 03C1558488

Project Location: XTO 32.37996-103.88669

Sampling Date: 10/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH02A 2' (H246446-04)

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	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	80.0	16.0	10/23/2024	ND	448	112	400	3.64	
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/22/2024 Sampling Date: 10/22/2024

Reported: 10/23/2024 Sampling Type: Soil

Project Name: JRU DI 1A BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558488 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.37996-103.88669

ma/ka

Sample ID: SS07 0.5' (H246446-05)

RTFY 8021R

BIEX 8021B	mg,	^и кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2024	ND	1.89	94.6	2.00	8.23	
Toluene*	<0.050	0.050	10/23/2024	ND	2.03	101	2.00	9.70	
Ethylbenzene*	<0.050	0.050	10/23/2024	ND	2.07	104	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/23/2024	ND	6.21	103	6.00	11.4	
Total BTEX	<0.300	0.300	10/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/23/2024	ND	448	112	400	3.64	
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*	<20.0	20.0	10/23/2024	ND	212	106	200	4.76	R-07
DRO >C10-C28*	<10.0	10.0	10/23/2024	ND	224	112	200	4.82	
EXT DRO >C28-C36	<10.0	10.0	10/23/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

R-07 The Reporting Limit for this analyte has been raised to account for target analyte concentration in the solvent.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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

Cool Intact

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Project Manager: 120002 NOCTISSEL	e L	P.O. #:		ANALYSIS REQUEST	QUEST
		**			
Address: 3122 National Parks Hwy	-	pany: XTD	n ven la		
State: NM	Zip: 88220	Colton			
307 Fax #:		ess: 3104 E	comes.		
86 Project Own	er:	Carlsba			
IA Baten		M	8		
Marche Brooks		Fax #:			
	MATRIX	SERV.	ING		
Sample I.D. Depth (feet)	CONTAINERS BROUNDWATER VASTEWATER SOIL	CID/BASE: CE / COOL THER:	STEX TPH Chloric		
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	6 (3	99:35		
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APPENDIX B

Excavation Guidance Document



April 29, 2025

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

Re: Excavation Guidance Document James Ranch Unit DI 1A Battery Incident Number NAPP2421529493 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) has prepared this document on behalf of XTO Energy, Inc. (XTO), to provide guidance on safety precautions related to the proposed excavation near existing production equipment. This guidance applies to the proposed excavation and applies only to the James Ranch Unit DI 1A Battery (Site), for which a Site Map is attached as Figure 1.

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Excavation Standard 29 Code of Federal Regulations (CFR) Part 1926 Sub-part P Section 1926.652(i) and 1926.652(j) and under the consultation of a Registered Professional Engineer (RPE). The document includes a review of the stability of adjacent structures and protection of employees from loose rocks, soil, and equipment and analysis of the following parameters:

- Soil types and conditions leading to cave-ins;
- Stability of engineered facility equipment with requested excavation;
- Protection of employees from materials and equipment that could fall or roll into an excavation;
 and
- Other hazardous conditions, including confined spaces.

This guidance document must be reviewed before starting any proposed excavation activities and kept on site if excavation activities are occurring. In addition, a copy of the OSHA Excavation Standard 29 CFR Part 1926 Sub-part P will be kept on site.

Review of OSHA Excavation Standards indicates the following guidance for general excavation activities:

- The walls of any excavated areas must be sloped to a maximum 1.5 horizontal to 1 vertical for Type C soils.
- OSHA Excavation Standard 29 CFR Part 1926 Sub-part P indicates the following:
 - Excavation below the level of the base or footing of any foundation or retaining wall poses a reasonable hazard to employees and should not be conduscted without major construction- either removal of equipment and/or installation of significant physical safety measures.
 - Employees shall be protected from excavated or other materials or equipment that could pose a hazard by falling or rolling into any excavation. Protection shall be provided by

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

XTO Energy, Inc. Excavation Guidance Document James Ranch Unit DI 1A Battery

placing and keeping such materials or equipment at least 2 feet (.61 m) from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.

When surcharge loads from stored material or equipment, operating equipment, or traffic are present, a Competent Person shall determine the degree to which the actual slope must be reduced below the maximum allowable slope, and shall assure that such reduction is achieved. Surcharge loads from adjacent structures shall be evaluated in accordance with § 1926.651(i).

EXCAVATION ANALYSIS PARAMETERS

The following findings were observed at the Site:

- Soil type C was observed in the Site visit. Type C soil will be utilized for the recommendation, which is the most conservative scenario.
- The area in question entails a 12-foot by 9-foot section directly adjacent to and beneath equipment as shown on Figure 2.
- To the west of the proposed excavation area is an engineered separator structure measuring 20 feet by 9 feet with 4-inch steel C-channel footer. The separator tank measures approximately 20 feet by 6 feet with an estimated dry weight of 18,000 pounds without accounting for support structures.
- To the east of the proposed excavation area is an engineered pipe rack containing multiple pipelines and electrical conduits measuring 12 feet wide by an undetermined length exceeding 10 times the width. The pipe rack is supported by multiple C-channel footers.
- Six pipelines and an electrical tray extend across the requested excavation area. Concrete blocks are placed below the pipelines for support.

ENGINEER RECOMMENDATIONS

Review of the above-mentioned parameters, OSHA regulations, and Site conditions observed during Site visits were completed and the following RPE recommendations were reached:

- Stress to the soil below the separator structure estimated by the 2:1 Stress Distribution Model
 assumes the underlain soil is homogenous and isotropic. Pictorials illustrating the 2:1 stress
 distribution model are included in Appendix A. The maximum slope of sidewalls is 1 horizontal
 to 2 vertical based on this model.
- Using the separator structure footing bearing capacity in Terzaghi's bearing capacity equation, the bearing capacity would be undermined with slopes of 30 degrees beginning less than 2 times the width of the footing. With the width of the separator structure measuing 9 feet, the beginning of the slope should be limited to beginning no less than 18 feet from the edge of the separator structure footing without substantial supports added to the structure. This assumes loose to medium granular cohesionless soils with no shallow groundwater.
- Stress to the soil below the pipe rack structure can be estimated by the Boussinesq solution for infinitely long footing strip foundations assuming the underlain soil is homogenous and isotropic. Pictorials illustrating the Boussinesq solution lateral pressures and isobars are included in Appendix A. The maximum slope of sidewalls is 24 feet horizontal to 6 feet vertical from the center of the pipe rack assuming a 12-foot width for the pipe rack. The beginning of the slope should be limited to beginning no less than 6 feet from the edge of the pipe rack footing to prevent disruption of the stability of underlain soil.



XTO Energy, Inc. Excavation Guidance Document James Ranch Unit DI 1A Battery

> Based on the above analysis of all potential stresses related to weight distribution and bearing capacity, it is recommended that any excavation remain no less than 6 feet from the pipe rack footing and no less than 18 feet from the separator footing. Any excavation completed should maintain a maximum slope of 30 degrees.

CONCLUSIONS

Based on the dimensions of the requested excavation and presence of adjacent structures, there is inadequate structure support to conduct excavation of the identified impacted soil in a manner that both protects personnel health and equipment stability.

Sincerely,

Ensolum, LLC

The select

Kyle Schildt

Director Engineering Services

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

New Mexico State Land Office

Appendices:

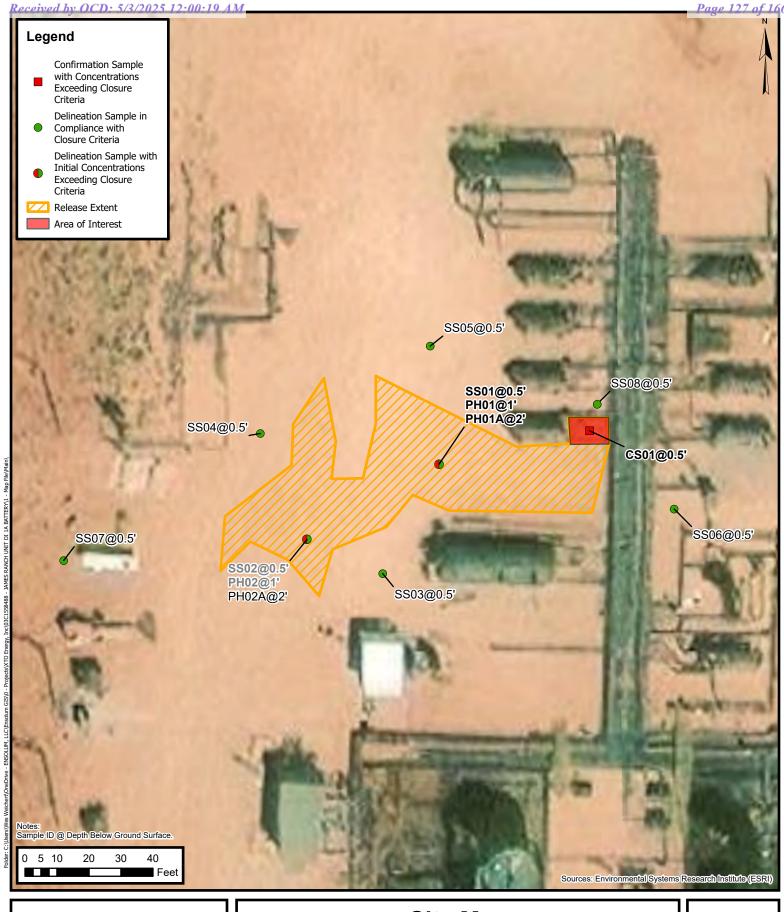
Figure 1 Site Location Map
Figure 2 Area of Interest Diagram
Appendix A Engineering Models







FIGURES





Site Map

XTO Energy, Inc
JAMES RANCH UNIT DI 1A BATTERY
Incident Number: NAPP2421529493
Unit A, Sec 21, T22S, R30E
Eddy Co, New Mexico, United States

FIGURE 1

Released to Imaging: 5/22/2025 1:31:15 PM



Appendix A Engineering Models

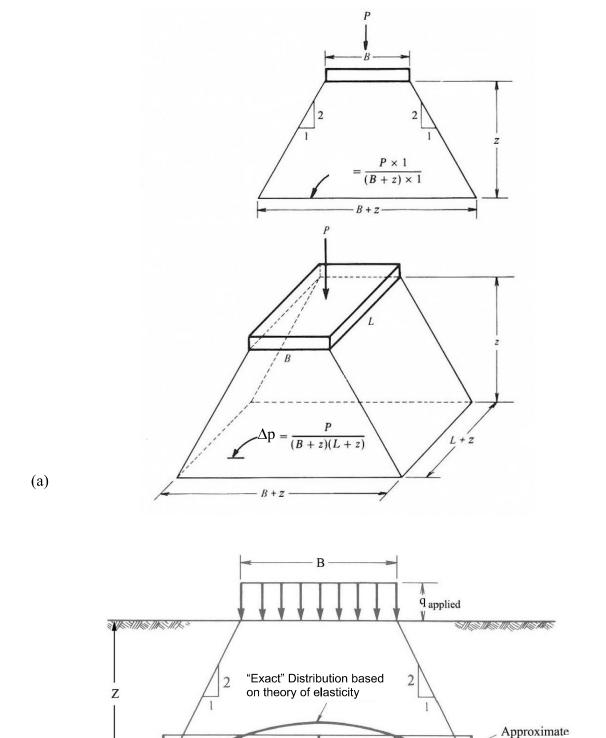


Figure 2-10. Distribution of vertical stress by the 2:1 method (after Perloff and Baron, 1976).

FHWA NHI-06-088 Soils and Foundations – Volume I 2 – Stress and Strain in Soils December 2006

distribution, Δp

(b)

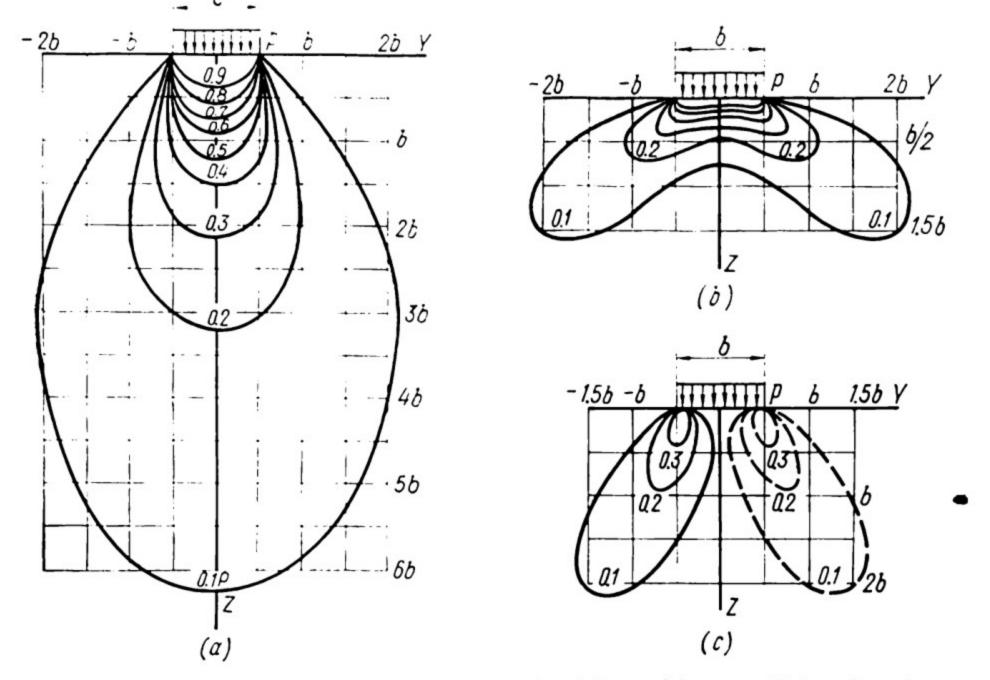
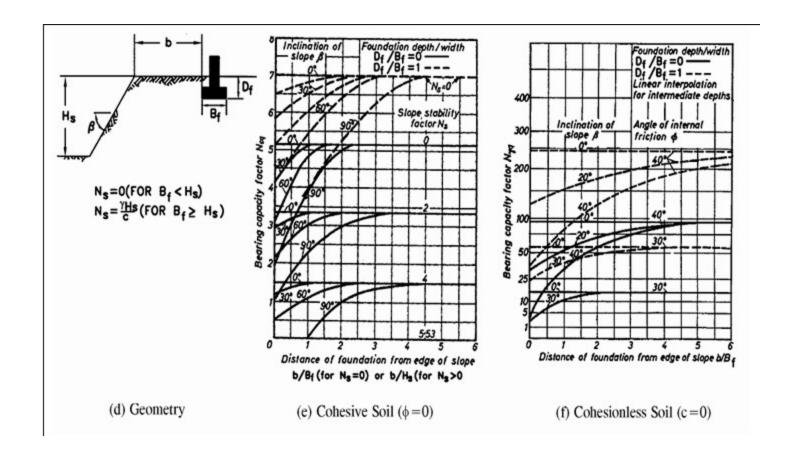


Fig. 49. Lines of equal stresses in a linearly deformable massif for the planar problem

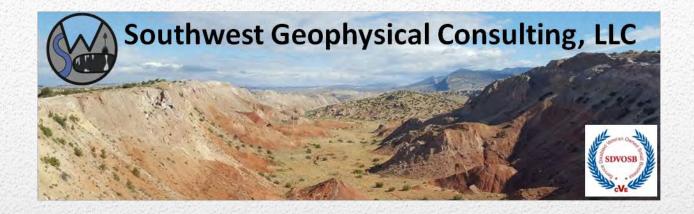
(a) isobars σ_z ; (b) lateral pressure σ_y ; (c) shears τ_{zx}





APPENDIX C

Environmental Karst Study Report



Environmental Karst Study Report James Ranch Unit DI 1A Battery Release Eddy County, New Mexico

Prepared For:
Ensolum, LLC
3122 National Parks Hwy
Carlsbad, NM 88220

☐ Positive within 200 feet of spill delineation boundary

☑ Negative within 200 feet of spill delineation boundary

☑ Stable **☐** Unstable Ground

☐ Karst Monitor Recommended

April 4, 2025

ENS-005-20250205

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Published by:

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Prepared for:

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Tracy Hillard (575) 937-3906 thillard@ensolum.com

MMXXV

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on February 5, 2025, for the purpose of conducting an environmental karst study within an area encompassing the James Ranch Unit DI 1A Battery Release site (project number 03C1558488, hereinafter termed "JRU1A8") centered at N 32.379839° W 103.886832°

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]) and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within the spill boundary of the James Ranch Unit DI 1A Battery Release using electrical resistivity imaging^[3].

1.2 Summary of Findings

- No surface karst features exist within the 200-foot (61-meter) zone surrounding the spill delineation boundary.
- No anomalies consistent with air-filled voids are located within the JRU1A8 resistivity survey area, indicating the zone beneath the geophysical survey is not subject to collapse.
- Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.

1.3 Affected Environment

The JRU1A8 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)^[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[4].

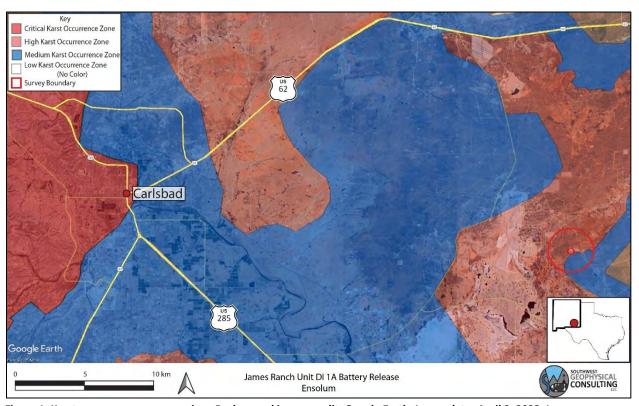


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

Due to the rapidity with which evaporite karst develops, each location within a CKOZ or HKOZ must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the dates of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 32.5 kilometers (20.2 miles) east-southeast of Carlsbad, New Mexico, north of the junction of Cimarron Road and Highway 128. The release area is located within section 21 of NM T22S R30E^[6] (Figure 1 and Figure 2). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section 2.2 Local Geology Summary for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ^[5] (Figure 1) and BLM-CFO managed land^[10] (Figure 2).

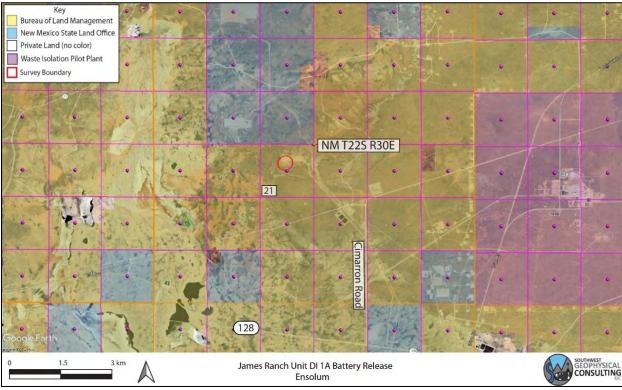


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the JRU1A8 survey is located east of Nash Draw at an elevation of 965 meters (3,163 feet), \pm 3 meters (9.8 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary eolian deposits (Qe), and piedmont gravels (Qp)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].

The Pru overlies the Permian Salado Formation (Psl – not shown), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

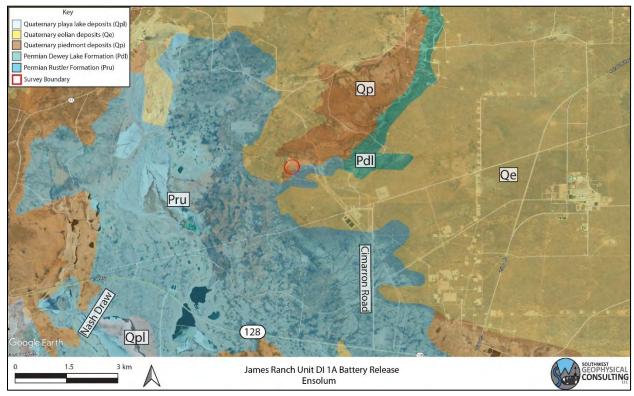


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The aerial karst survey includes a surface karst desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated April 2, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated December 23, 2024^[15]; the Tower Hill South, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned two previously recorded medium-likelihood karst features within the 305-meter survey boundary. These features can be identified by the feature ID dates earlier than that of this survey in **Table 3**.

Aerial karst surveys are conducted at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].

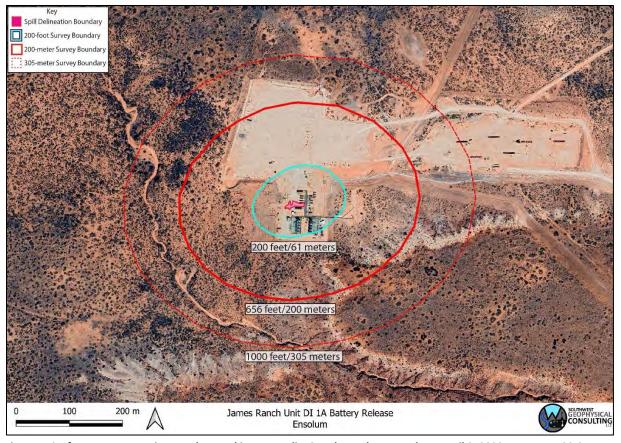


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: April 2, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on March 10, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on April 1, 2025.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multielectrode switchbox, a 28-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole strong-gradient configuration; line one is laid out west to east while line two is laid out south to north. Both lines consisted of 28 electrodes at 5-meter spacing, resulting in 135-meter-long arrays (**Figure 5**, **Table 1**). A preconfigured command file was used to run the data collection (DDSG28). This electrode configuration provided a depth of investigation of 27 meters (89 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

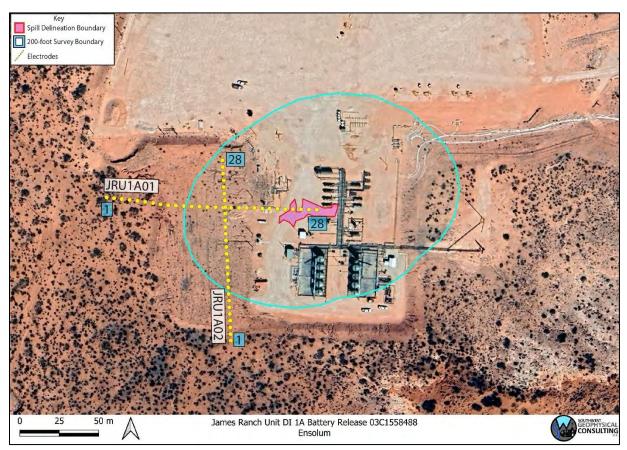


Figure 5: Geophysical survey overview. Two survey lines were conducted with 28 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/ longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files JRU1A8 _ERI_Points.xlsx and ENS-004-20250205_JRU1A8_Data_Files.kmz.

File Name:	Completed By:	Date:
JRU1A01.kmz	Garrett Jorgensen Olague – Senior Field Geologist	2 /27 /2025
JRU1A02.kmz	Britt Bommer – Field Geologist Kat Knight – Field Geologist	3/27/2025

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

Table 2: Software Information and Settings

Table 2. Software information and Settings		
Software Name:	EarthImager [™] 2D	
Version:	2.4.4.649	
Starting Model:	Average Apparent Resistivity	
Default Inversion Settings:	Surface	
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m	
	Min Apparent Resistivity = 0.1Ω -m	

Note: Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Kat Knight on March 27, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within the 200-foot (61-meter)^[1] survey area surrounding the spill delineation boundary (Figure 6).

Two medium-likelihood surface karst features are located within the 305-meter survey boundary, but outside of the 200-meter aerial karst survey boundary (**Figure 6**, **Table 3**). Medium-likelihood surface karst features are ambiguous in aerial imagery and should be field-checked for verification if they impact remediation activities.

Both of these features are tentatively identified as springs, but are most likely associated with soil piping. Both exist within the 1,000-foot (305-meter)^[1] survey boundary. These features need to be checked and verified in the field prior to using this information for decisions related to remediation efforts.

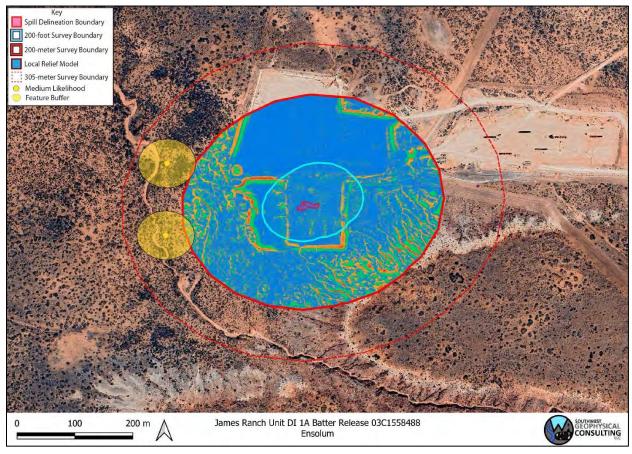


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

Table 3 contains a list of features identified during the aerial karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 3: Surface Karst Feature Data Table

KF			Size	Buffer			
Status	Feature ID	Туре	(m)	(m)	Modifier	Easting	Northing
PKF	240130-D04	Spring	4.2	50	М	604458.854	3583159.060
PKF	240130-D05	Spring	1.6	50	М	604458.016	3583012.644

NOTE: Location data provided in WGS-84/UTM 13N. PKF - possible karst feature.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 6.7 and 415 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

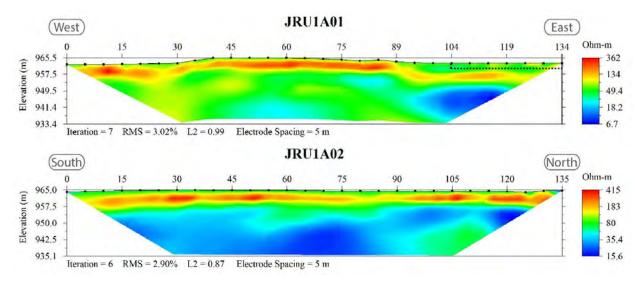


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative. The dashed black line indicates the location of the well pad.

4.0 DISCUSSION

No anomalies consistent with air-filled subsurface voids are found within the JRU1A8 survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as dry caliche or gypsite soils. Due to their low resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum bedrock of the Rustler Formation^[17] (Figure 7 and Figure 8).

The low-resistivity areas between 6.7 - 30 Ohm-m are interpreted as a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation. (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

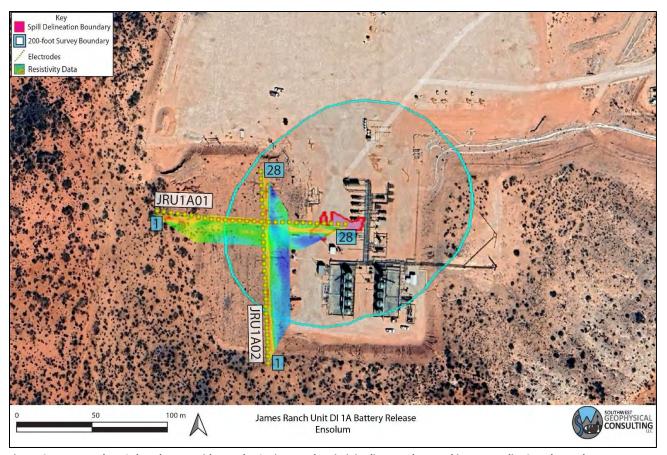


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity line. Background image credit: Google Earth. Image date: April 2, 2023.

5.0 SUMMARY

- The JRU1A8 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.
- No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the survey area.
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

High karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports commissioned at the request of the land manager should be submitted to:

BLM-CFO: blm nm karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

7.0 REFERENCES

- Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
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- 14 Scholle, P. A. Geologic Map of New Mexico. (2003).
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- Hill, C. A. Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas. Vol. 96-39 (Permian Basin Section SEPM, 1996).

8.0 GLOSSARY OF TERMS

AGI Advanced Geosciences Inc.

BLM-CFO Bureau of Land Management - Carlsbad Field Office

brecciated Fractured rock caused by faulting or collapse.

caprock-collapse sinkhole Collapse of roof-spanning rock into a cave or void.

cave Natural opening at the surface large enough for a person to enter.

cover-collapse sinkhole Collapse of roof-spanning soil or clay ground cover into a subsurface

void.

ERI Electrical Resistivity Imaging
GPS Global Positioning System

grike A solutionally enlarged, vertical, or sub-vertical joint or fracture.

(H) High confidence modifier for a PKF. This is typically reserved for a

feature that is definitely karst but has not been confirmed in the

field.

HKOZ High Karst Occurrence Zone

karst A landscape containing solutional features such as caves,

sinkholes, swallets, and springs.

(L) Low confidence modifier for a PKF. This is typically a feature that

cannot be ruled out as karst but is most likely NOT karst related.

This modifier may also be used for pseudokarst features.

(M) Medium confidence modifier for PKF. This is an ambiguous

feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes,

pseudokarst).

MKOZ Medium Karst Occurrence Zone
NCRC National Cave Rescue Commission

NKF Non-karst feature. Used for features originally identified as PKF

that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.

NMSLO New Mexico State Land Office

Ohm-meter, a unit of measurement for resistivity. Sometimes

abbreviated Ω -m.

paleokarst Previously formed karst features that have been filled in by

erosion and/or deposition of minerals.

Pat Permian Artesia Group
Pc Permian Capitan Formation

Pcs Permian Castile Formation

Pdl Permian Dewey Lake Formation

PKF Possible karst feature. This term is reserved for features

identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field

experience.

PLSS Public Land Survey System

Pqg Permian Queen/Greyburg Formation

Pru Permian Rustler Formation

pseudokarst Karst-like features (sinkholes, conduits, voids etc.) that are not

formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.

Psl Permian Salado Formation

Psr Permian Seven Rivers Formation

Pt Permian Tansill Formation
Py Permian Yates Formation
Qal Quaternary alluvium

Qe Quaternary eolian deposits
Qp Quaternary piedmont deposits
Qpl Quaternary playa lake deposits

RKF Recognized karst feature. This term is reserved for karst features

that have been physically verified in the field.

SPAR Small Party Assisted Rescue sUAS Small, uncrewed aerial system

suffosion sinkhole Raveling of soil into a pre-existing void or fracture.

swallet A natural opening in the surface, too small for a person, that drains

water to an aquifer. Some are "open," meaning a void can be seen

below; some are "closed, "meaning they are full of sediment.

SWG Southwest Geophysical Consulting, LLC

UTM Universal Transverse Mercator (projected coordinates)

(V) Field verified modifier for a RKF. This indicates that the feature has

been visited by a qualified karst professional in the field and fully

identified

WGS World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist Southwest Geophysical Consulting, LLC 5117 Fairfax Dr. NW Albuquerque, NM 87114 dave@swgeophys.com (505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of "qualified karst professional" set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of "qualified professional" for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-005-20250205 entitled, "Environmental Karst Study Report, James Ranch Unit DI 1A Battery Release, Eddy County, New Mexico." I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section 2.3 Description of Survey.

• I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, April 10, 2025.



PhD, CPG-12123



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 457850

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	457850
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2421529493	
Incident Name	NAPP2421529493 JAMES RANCH UNIT DI 1A BATTERY @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	JAMES RANCH UNIT DI 1A BATTERY	
Date Release Discovered	07/26/2024	
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
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 the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
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)	Leak was located on a tester 4" T	

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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 457850

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 457850 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	
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 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 releate the 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: 10/24/2024

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

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

QUESTIONS, Page 3

Action 457850

QUESTIONS (continued)

OGRID: Operator XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 457850 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Zero feet, overlying, or within area	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

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 contamination 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)	8600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	77.4	
GRO+DRO (EPA SW-846 Method 8015M)	77.4	
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 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.		
On what estimated date will the remediation commence	10/30/2024	
On what date will (or did) the final sampling or liner inspection occur	11/30/2024	
On what date will (or was) the remediation complete(d)	12/05/2024	
What is the estimated surface area (in square feet) that will be reclaimed	3450	
What is the estimated volume (in cubic yards) that will be reclaimed	300	
What is the estimated surface area (in square feet) that will be remediated	3450	
What is the estimated volume (in cubic yards) that will be remediated	300	
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.		

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.

Sante Fe Main Office Phone: (505) 476-3441

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 4

Action 457850

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	457850
	Action Type:
	[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:		
Yes		
HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]		
Not answered.		
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	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 05/01/2025
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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 5

Action 457850

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	457850
	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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QUESTIONS, Page 6

Action 457850

QUESTIONS (continued)

OGRID:
5380
Action Number:
457850
Action Type:
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	422035
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/21/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

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	3540	
What was the total volume (cubic yards) remediated	300	
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	3540	
What was the total volume (in cubic yards) reclaimed	300	
Summarize any additional remediation activities not included by answers (above)	The results of the karst survey confirm there is no imminent risk to groundwater at the Site based on the absence of any visible karst features through desktop and pedestrian surveys and absence of any anomalies observed through the geophysical survey to indicate voids. The absence of karst features beneath the Site indicates the subsurface is stable and there is no imminent threat to human health, the environment, or groundwater, which eliminates the sensitive receptor as it relates to the Site. As such, based on initial response efforts, removal of impacted soil to the MEP, and full delineation of the release to the strictest Closure Criteria, XTO requests remediation closure approval for Incident Number NAPP2421529493. Waste-containing soil identified in the inaccessible area will be removed at the time of final reclamation of the well pad or major construction, whichever comes first.	

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.

I hereby agree and sign off to the above statement	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com
	Date: 05/01/2025

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QUESTIONS, Page 7

Action 457850

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	457850
	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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CONDITIONS

Action 457850

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	457850
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created		Condition Date
scwell	Remediation closure approved based on depth to groundwater closure criteria. When this site has been plugged and abandoned or is no longer reasonably needed for production, it will need to meet the requirements of 19.15.29.13 NMAC.	