

Location:	Perla Verde 31 State 001H	
Spill Date:	5/2/2024	
Area 1		
Approximate Area =	4209.00	sq. ft.
Average Saturation (or depth) of spill =	2.25	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	2.32	bbls
Total Produced Water =	18.76	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	2.87	bbls
Total Produced Water =	23.21	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.55	bbls
Total Produced Water =	4.45	bbls



February 7, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
Perla Verde 31 State 001H
Incident Number nAPP2412749555
API 30-025-42063
Lease Number L023780001
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the Perla Verde 31 State 001H (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacted soil from a release of crude oil and produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2412749555.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 31, Township 19 South, Range 35 East, in Lea County, New Mexico (32.610101°, -103.504201°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (SLO). The Site is associated with the Perla Verde 31 State Com #001H (API: 30-025-42063) oil well on SLO lease number L02-378-0001.

On May 2, 2024, an equipment failure resulted in the release of 3 barrels (bbls) of crude oil and 23 bbls of produced water onto the pad surface. XTO immediately dispatched a vacuum truck and 1 bbl of crude oil and 4 bbls of produced water were recovered. XTO submitted a Notification of Release (NOR) on May 6, 2024 and subsequently an Initial C-141 Application (C-141) on May 7, 2024. The release was assigned Incident Number nAPP2412749555.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on November 14, 2024, and approved by the New Mexico Oil Conservation Division (NMOCD) the same day. The *Work Plan* proposed excavation of impacted soil identified during delineation activities. The approved *Work Plan* proposed the following:

- Excavation of 4,205 square foot area on pad;
- Disposal of approximately 470 cubic yards of soil at the R360 landfill disposal facility; and

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Perla Verde 31 State 001H

- Soil sampling would be completed following the NMOCD sampling requirement of every 200 square feet along the floor and sidewalls of the excavation.

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
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release occurred on the well pad, the site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with this release.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- The Site is located within an area of possible Lesser Prairie Chickens and Dunes Sage Brush Lizards habitat.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
 - Due to the release occurring on pad surface, no suitable habitat was identified for the Dunes Sage Brush Lizards at the Site. Remediation efforts are not expected to occur outside of the pad boundaries.
- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization. Groundwater is estimated to be less than 100 feet below ground surface (bgs) but greater than 50 feet bgs. The strictest criteria was applied due to the absence of depth to groundwater data within ½ mile and within 25 years.
- The soil type is classified as Pyote and Maljamar fine sands according to the Web Soil Survey. Pyote and Maljamar fine sands are considered a sensitive soil by the SLO definition. The release occurred on the pad surface limiting contact with potential sensitive soils and was found to have occurred only on the pad caliche.

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EXCAVATION AND SOIL SAMPLING ACTIVITIES

On November 12 and November 13, 2024, Ensolum personnel were onsite to excavate impacted soil according to the approved *Work Plan*. Excavation activities were performed by the use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS21 were collected from the floor of the excavation at depths ranging from 2 feet below ground surface (bgs) to 4 feet bgs. Confirmation soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities and final excavation extent is provided in Appendix A.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): 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 Standards Method SM4500.

The final excavation extent measured approximately 3,827 square feet. A total of approximately 400 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. Disposal manifests are included in Appendix B. The excavation was backfilled with material purchased locally and the Site was recontoured to match pre-existing site conditions.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples indicated all COCs were in compliance with Site Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Excavation activities were conducted at the Site in accordance with the *Work Plan* to address the May 2, 2024 release of crude oil and produced water. The approved November 14, 2024, *Work Plan* is included in Appendix D. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the Site was recontoured to match pre-existing site conditions.

Excavation of soil has removed impacted soil from the area. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2412749555.

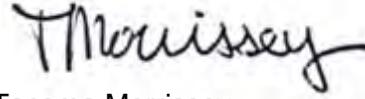
If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

XTO Energy, Inc
Closure Request
Perla Verde 31 State 001H

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Tacoma Morrissey
Associate Principal

cc: Ashley McAfee, XTO
Kaylan Dirkx, XTO
SLO

Appendices:

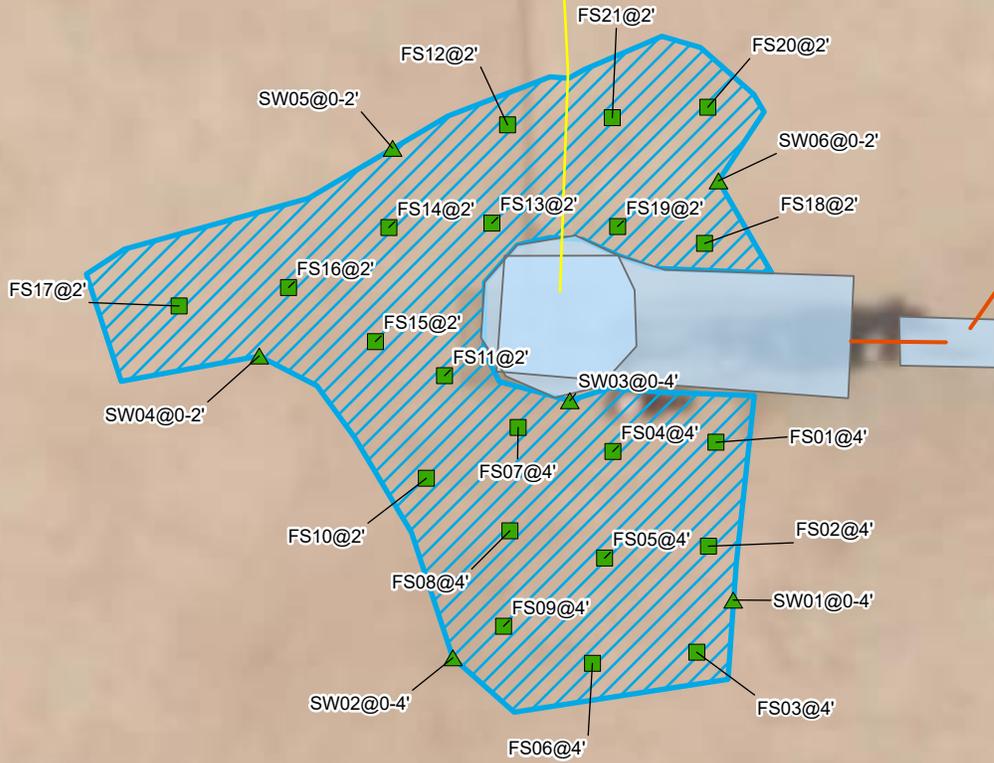
- Figure 1 Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Photographic Log
- Appendix B Disposal Manifests
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix D November 14, 2024, *Remediation Work Plan*



FIGURES

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Proposed Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc
 Perla Verde 31 State 001H
 Incident Number: nAPP2412749555
 Unit M, Sec 31, T19S, R35E
 Lea County, New Mexico

FIGURE
1



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Perla Verde 31 State 001H
XTO Energy, Inc
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Soil Samples										
FS01	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS02	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS04	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS05	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS06	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS08	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS09	11/13/204	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS10	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS12	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS15	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS16	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS17	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS18	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS19	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS20	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS21	11/13/204	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW01	11/13/204	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW02	11/13/204	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Perla Verde 31 State 001H
XTO Energy, Inc
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW03	11/13/204	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW04	11/13/204	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW05	11/13/204	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW06	11/13/204	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A
Photographic Log



Appendix B

Disposal Manifests



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name David Byrd
Phone No. _____

Generator Manifest # X70 **GENERATOR** NO. HW-699655

Generator Name _____ Location of Origin _____
 Address _____ Name & No. Porta Verde 31ST 1H
 City, State, Zip _____ County Project: 030155509
 Phone No. _____ API No. AP# 30-025-43067
 RIG Name & No. SC-114968/001
 AFE/PO No. Incident: NAPP 7417799556

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>Belly Dump</u>
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil <u>2</u>	Truck Washout (exempt waste) YES _____ NO <u>(circled)</u>	QUANTITY _____ TOP SOIL _____ CALICHE _____
Gas Plant Waste _____		

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
 All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from **Non-Exempt Waste List** on back

DISPOSAL QUANTITY: B - BARRELS _____ L - LIQUID _____ Y - YARDS 20 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.

RCRA EXEMPT: 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)

RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Sen Tex Mex Driver's Name Corny Reimer
 Address _____ Print Name _____
 Phone No. _____ Phone No. _____
 Transporter Ticket # _____ Truck No. 39

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-14-74 DRIVER'S SIGNATURE Corny Reimer

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>(Signature)</u>
Name/Permit No. Address <u>Halfway Facility / NM1-006</u> <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlisbad, NM 88220</u>	Phone No. <u>575-392-6300</u>	
NORM READINGS TAKEN? (Circle One) YES <u>(circled)</u> NO _____	If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____	
PASS THE PAINT FILTER TEST? (Circle One) YES _____ NO <u>(circled)</u>		

TANK BOTTOMS

Feet _____	Inches _____	BS&W/BBLs Received _____	BS&W (%) _____
Water Gauge _____	_____	Free Water _____	_____
Oil Gauge _____	_____	Total Received _____	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

 NAME (PRINT) DATE TITLE SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David B...

Phone No. _____

GENERATOR NO. **HW- 713749**

Generator Manifest # X70 Location of Origin _____
 Generator Name _____ Name & No. Parla Verde 31 ST 1 H
 Address _____ County Blaine 034558304
 City, State, Zip _____ API No. WAP 741274955
 Phone No. _____ Rig Name & No. CC 11496.1001
 AFE/PO No. 30-025-42063

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Gas Plant Waste		QUANTITY TOP SOIL CALICHE

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
 All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY: B - BARRELS L - LIQUID 209 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.

RCRA EXEMPT: 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)

RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sony Ted Apps Driver's Name Conroy Reimer
 Address _____ Print Name _____
 Phone No. _____ Phone No. _____
 Transporter Ticket # _____ Truck No. 34

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-14-24 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP IN: _____ OUT: _____

DISPOSAL FACILITY Name/No. _____

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368
 Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT) [Signature] DATE 11/14 TITLE [Signature] SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Byrd

Phone No. _____

GENERATOR

NO. HW-691151

Generator Manifest # _____
Generator Name XTO
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Lease/Well Name & No. Perla New 31 St 1H
County Doña Ana
API No. 33-02-42063
Rig Name & No. DOÑA ANA APP 2412 2445 SE
AFE/PO No. CC-1149661001

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Belly Dump</u>
Waste Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	Truck Washout (exempt waste)	YES NO QUANTITY TOP SOIL CALICHE
Gas Plant Waste		

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 0 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name S.T.M. 2011 Texas
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Ernie Hender
Print Name _____
Phone No. _____
Truck No. 59

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11-14-24 DRIVER'S SIGNATURE _____ DELIVERY DATE 11-14-24 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. 28

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlisbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO IF YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
		Free Water	
		Total Received	

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? _____
NAME (PRINT) [Signature] DATE 11-14-24 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Byrd

Phone No. _____

GENERATOR

NO. HW- 705467

Generator Manifest # _____
Generator Name XTO
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin
Lease/Well Name & No. Perla Verde 1st 1H
County Incident # 2412242025
API No. 30-025-48 163
Rig Name & No. CD 1142661001
AFE/PO No. Project 0301035009

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____		
Water Based Muds	_____		
Water Based Cuttings	_____		
Produced Formation Solids	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	_____		
Gas Plant Waste	_____		
Truck Washout (exempt waste)		YES _____ NO _____	QUANTITY _____ TOP SOIL _____ CALICHE _____

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS _____ L - LIQUID 20 (CY - 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.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (RCDD Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: 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-OILFIELD: 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)

David Byrd
(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Sen Tex Mex
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Bustano Ruiz
Print Name _____
Phone No. _____
Truck No. # 81

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-14-24 SHIPMENT DATE [Signature] DRIVER'S SIGNATURE

11-14-24 DELIVERY DATE [Signature] DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>28</u>
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Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 675-392-6368

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge	_____	_____	_____	_____
Mid Gauge	_____	_____	Free Water	_____
2nd Gauge	_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) [Signature] DATE 11-14-24 TITLE [Signature] SIGNATURE [Signature]



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Bwd

Phone No. _____

GENERATOR

NO. HW-713748

Generator Manifest # X7D
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin
Lease/Well Name & No. Parlavado 3/15T 1H
County Blanco
API No. 20-425-11203-3 (4129) 2/4/55
Rig Name & No. CC 114261001
AFE/PO No. 20-025-420C3

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Bole DUMP</u>	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)		
Water Based Cuttings	Produced Water (Non-Injectable)		
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil	Truck Washout (exempt waste)	YES	NO
Gas Plant Waste		QUANTITY <u>70</u>	TOP SOIL CALICHE

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 CY - 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Son Tex Mex
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Nabor Rodriguez
Print Name _____
Phone No. _____
Truck No. 61

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-11-24 DRIVER'S SIGNATURE NK

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 28

Site Name/ permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 100 Mile Marker 66 Carlsbad, NM 88220

Phone No. 676-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
3rd Gauge		

BS&W/BBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above listed material has been (circle one) ACCEPTED DENIED If denied, why? _____
NAME (PRINT) _____ DATE 11-11-24 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company/Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Dyer

Phone No. _____

GENERATOR

NO. HW-707751

Generator Manifest # XTU
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Peak Verde
Lease/Well Name & No. 315+1H DR 1551509
County Elm
API No. 502-025-42063
Rig Name & No. HW 2112749533
AFE/PO No. 1192661001

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES NO QUANTITY TOP SOIL CALICHE
Gas Plant Waste	_____		

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCUP), ignitability, Corrosivity and Reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 200 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE 11-13-24 SIGNATURE [Signature]

TRANSPORTER

Transporter's Name SEM Tex 2264
Address _____
Phone No. 432-204-4220
Transporter Ticket # _____

Driver's Name Leibeele Howard
Print Name _____
Phone No. _____
Truck No. 38 Bettychump

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE _____ DRIVER'S SIGNATURE _____

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>28</u>
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Facility Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-392-6368
NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) _____ DATE 11-13-24 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Garcia

Phone No. _____

GENERATOR

NO. HW-70775

Generator Manifest # X70
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Prattville
Lease/Well Name & No. 21st 11 08155-519
County Levy
API No. 30-022-42063
Rig Name & No. 4222-2412745259
AFE/PO No. 1149061001

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil _____	Truck Washout (exempt waste) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste _____			

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCRP), ignitability, corrosivity and reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY 1 B - BARRELS L - LIQUID 2 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Son Tex Mex
Address _____
Phone No. 432-209-4290
Transporter Ticket # _____

Driver's Name Caribout H. Sued
Print Name _____
Phone No. _____
Truck No. 2412745259

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE _____ DRIVER'S SIGNATURE _____

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>28</u>
--	-------------------	--------------------------------------

Facility Name/Permit No. Halfway Facility / NM1-006 Phone No. 675-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 85220
NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) JL DATE 11/15/21 TITLE RE SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Lyle

Phone No. _____

GENERATOR

NO. HW- 70775

Generator Manifest # X TO
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Lease/Well Name & No. Reata Verde
31 ST 214 OZ 1558509
County Chlor
API No. 30-224-42063
Rig Name & No. NM 241-119103
AFE/PO No. 219916107

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____ QUANTITY _____ TOP SOIL _____ CALICHE _____
Gas Plant Waste	_____		

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCF), ignitability, Corrosivity and Reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Sam Toy Inc
Address _____
Phone No. 432-209-9222
Transporter Ticket # _____

Driver's Name Without Name
Print Name _____
Phone No. _____
Truck No. 35 230 114 00

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE _____ DRIVER'S SIGNATURE _____

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>TY</u>
--	-------------------	--------------------------------------

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-392-6368
NORM READINGS TAKEN? (Circle One) YES NO IF YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Foot	Inches	BS&W/DBLS Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one) ACCEPTED YES DENIED NO If denied, why? _____
NAME (PRINT) _____ DATE _____ TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name Prudhoe

Phone No. _____

GENERATOR

NO. HW- 707751

Generator Manifest # X70
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Lease/Well Name & No. Peata Verde
315F 2 H 0301558509
County Edm
API No. 30-025-42063
Rig Name & No. WPT 2412 24415
AFE/PO No. 114966100

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	Truck Washout (exempt waste)	YES NO QUANTITY TOP SOIL CALICHE
Gas Plant Waste		

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Scm Tex Inc
Address _____
Phone No. 482-200-420
Transporter Ticket # _____

Driver's Name Robert Hamed
Print Name _____
Phone No. _____
Truck No. 38-5050000

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE _____ DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____ Name/No. 21

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 675-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Foot	Inches	BS&W/BBLs Received	BS&W (%)
Oil Gauge		Free Water	
Water Gauge		Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT) _____ DATE _____ TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Map Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name: David Bynum

Phone No. _____

GENERATOR

NO. HW- 718120

Generator Manifest # XTO
Generator Name
Address
City, State, Zip
Phone No.

Location of Origin Lease/Well Name & No. Pearl Vanda
County
API No.
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for waste types (Oil Based Muds, Water Based Muds, etc.), sub-categories (NON-INJECTABLE WATERS, INTERNAL USE ONLY), and disposal options (QUANTITY, TOP SOIL, CALICHE).

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from Non-Exempt Waste List on back

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.

- RCRA EXEMPT: 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)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations.
EMERGENCY NON-OILFIELD: 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 AGENT'S SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Sam Tex mcy
Address
Phone No. 432-204-4207
Transporter Ticket #

Driver's Name Gilbert Hanzel
Print Name
Phone No.
Truck No. 38 Bettychew

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: OUT: Name/No. 1-8

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-392-6366
NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table for Tank Bottoms with columns for Foot, Inches, BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above listed material has been (circle one): ACCEPTED DENIED If denied, why?
NAME (PRINT) DATE TITLE SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Ryan

Phone No. _____

GENERATOR

NO. HW-718121

Generator Manifest # XTU
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Peak Vista
Lease/Well Name & No. 31512H P 2158509
County Levy
API No. 30-025-42013
Rig Name & No. 2111241270470
AFE/PO No. 114661001

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings	Washout Water (Non-Injectable)		
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)		
Water Based Cuttings	Produced Water (Non-Injectable)		
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil	Truck Washout (exempt waste)	YES	NO
Gas Plant Waste		QUANTITY	TOP SOIL CALICHE

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCDF), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 209 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sem Tex Mex
Address _____
Phone No. 432-209 4230
Transporter Ticket # _____

Driver's Name Libert Harned
Print Name _____
Phone No. _____
Truck No. 33

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-15-21 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____

Name/No. 28

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Foot	Inches	BS&W/BOLS Received	BS&W (%)
Water Gauge		Free Water	
Oil Gauge		Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) JL DATE 11-13-21 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name: David Lopez

Phone No. _____

GENERATOR

NO. HW-718122

Generator Manifest # XTO
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Recall Vehicle
Lease/Well Name & No. 315 + 214 D361588505
County Lehigh
API No. 30-25-40143
Rig Name & No. WPT 2012/40143
AFE/PO No. 11966201

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____		
Water Based Muds	_____		
Water Based Cuttings	_____		
Produced Formation Solids	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	_____		
Gas Plant Waste	_____		
Truck Washout (exempt waste)		YES _____ NO <u>(checked)</u>	QUANTITY _____ TOP SOIL _____ CALICHE _____

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCPL), ignitability, Corrosivity and Reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS³ 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.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R300 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Serr Tex Inc
Address _____
Phone No. 432-209-4236
Transporter Ticket # _____

Driver's Name Wilbert Hamed
Print Name _____
Phone No. _____
Truck No. 3x Bellchapel

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 2/12/25 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP IN: _____ OUT: _____	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>[Signature]</u>
--	-------------------	---

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlisbad, NM 88220
Phone No. 575-392-6360
NORM READINGS TAKEN? (Circle One) YES _____ NO (checked)
PASS THE PAINT FILTER TEST? (Circle One) YES _____ NO (checked)
If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____

TANK BOTTOMS

Foot	Inches	BS&W/BBLs Received	BS&W (%)
Free Water	_____	_____	_____
Total Received	_____	_____	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED _____ If denied, why? _____
NAME (PRINT) _____ DATE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Boyd

Phone No. _____

GENERATOR

NO. HW-718156

Generator Manifest # 170
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Lease/Well Name & No. Paris Verde 3151 LF
County Parish: 0301558504
API No. Exempt: NAPP2412749555
Rig Name & No. 24-025-47263
AFE/PO No. CC:1149661W1

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS		
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Belly</u>		
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)			
Water Based Cuttings	Produced Water (Non-Injectable)			
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)			
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES		
E&P Contaminated Soil	Truck Washout (exempt waste)	QUANTITY	TOP SOIL	CALICHE
Gas Plant Waste	YES <u>NO</u>			

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCUP), ignitability, Corrosivity and reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Scoutex Mex
Address _____
Phone No. (432) 209-6274
Transporter Ticket # _____

Driver's Name John Vign
Print Name John Vign
Phone No. _____
Truck No. 256045

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below
SHIPMENT DATE 11/14/24 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 11/14/24 DRIVER'S SIGNATURE [Signature]

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____ Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) [Signature] DATE 11-17-24 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. _____

(PLEASE PRINT) *REQUIRED INFORMATION*

GENERATOR

NO. HW-718111

Generator Manifest # 170
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Perla Verde 3157A
Lease/Well Name & No. Perla 03C 1558509
County Tarrant 21A PR241274755
API No. 30-035-42463
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____		
Water Based Muds	_____	Washout Water (Non-Injectable)	_____
Water Based Cuttings	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Produced Formation Solids	_____	Produced Water (Non-Injectable)	_____
Tank Bottoms	_____	Gathering Line Water/Waste (Non-Injectable)	_____
E&P Contaminated Soil	<input checked="" type="checkbox"/>	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
Gas Plant Waste	_____	Truck Washout (exempt waste)	YES NO QUANTITY TOP SOIL CALICHE

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

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.

- RCRA EXEMPT: 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)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sam Tax Mex
Address _____
Phone No. (482) 205-4230
Transporter Ticket # _____

Driver's Name John Hines
Print Name John Hines
Phone No. _____
Truck No. 296045

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.
SHIPMENT DATE 11/13/24 DRIVER'S SIGNATURE _____ DELIVERY DATE 11/13/24 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____	Name/No. <u>20</u>	

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 675-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
NORM READINGS TAKEN? (Circle One) YES NO IF YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
High Gauge	_____	Free Water	_____
Mid Gauge	_____	Total Received	_____
Low Gauge	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?
NAME (PRINT) _____ DATE 11-13-24 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. _____

(PLEASE PRINT) *REQUIRED INFORMATION*

GENERATOR		NO. HW- 718110
Generator Manifest # <u>X 10</u>	Location of Origin <u>per la vende 31st st</u>	
Generator Name _____	Name & No. <u>project: 636 155 8509</u>	
Address _____	County <u>San Juan</u>	
City, State, Zip _____	API No. <u>30-025 41163</u>	
Phone No. _____	Rig Name & No. _____	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	NON-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		<u>Belly</u>
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	INTERNAL USE ONLY		TOP SOIL & CALICHE SALES
E&P Contaminated Soil _____	Truck Washout (exempt waste) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY _____	TOP SOIL _____ CALICHE _____
Gas Plant Waste _____			

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

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.

RCRA EXEMPT: 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)

RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER	
Transporter's Name <u>San Tex Mex</u>	Driver's Name <u>Adrian Lopez</u>
Address _____	Print Name <u>Adrian Lopez</u>
Phone No. <u>(432) 209-4230</u>	Phone No. <u>924 6045</u>
Transporter Ticket # _____	Truck No. <u>246045</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/13/24 Adrian Lopez 11/13/24 Adrian Lopez

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____		Name/No. <u>08</u>

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS			
Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED 11/13 DENIED _____ If denied, why? _____

NAME (PRINT) _____ DATE _____ TITLE _____ SIGNATURE _____

Received by OCD: 2/17/2025 1:59:24 PM

Released to Imaging: 2/12/2025 10:26:58 AM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name David Boyd

Phone No. _____

GENERATOR

NO. HW-718112

Generator Manifest # 10
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Pera Verde 31 21 1H
Lease/Well Name & No. PERA VERDE 31 21 1H
County TARRANT
API No. 30-025-43463
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS		
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____			
Water Based Muds	_____		Produced Water (Non-Injectable)	_____			
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____			
Produced Formation Solids	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALTS				
Tank Bottoms	_____		Truck Washout (exempt waste)	YES	(NO)	QUANTITY	TOP SOIL
E&P Contaminated Soil	_____						
Gas Plant Waste	_____						

Belly

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCDF), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 2.0 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.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (RCRA Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sen Tex Mex
Address _____
Phone No. (432) 209-4230
Transporter Ticket # _____

Driver's Name Adrian Flores
Print Name _____
Phone No. _____
Truck No. 296045

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.
SHIPMENT DATE 11/13/24 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 11/13/24 DRIVER'S SIGNATURE [Signature]

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____ Name/No. 20

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlisbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____
NAME (PRINT) [Signature] DATE 11/13 TITLE _____ SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Boyd

Phone No. _____

(PLEASE PRINT) *REQUIRED INFORMATION*

GENERATOR

NO. HW-718109

Generator Manifest # X70
Generator Name _____
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin Perla Verde 31 57 11
Lease/Well Name & No. Front 336 155 850
County Tarrant, TX 75087
API No. 30-025-42063
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	<u>Belly</u>
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE BALLS
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	QUANTITY
Gas Plant Waste	_____	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	TOP SOIL
WASTE GENERATION PROCESS:		DRILLING <input type="checkbox"/>	COMPLETION <input type="checkbox"/>
		PRODUCTION <input type="checkbox"/>	GATHERING LINES <input type="checkbox"/>

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCDF), ignitability, Corrosivity and Reactivity.
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY: B - BARRELS _____ L - LIQUID _____ Y - YARDS 20 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.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (RCRA Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sam Tex Mex
Address _____
Phone No. (432) 209-4280
Transporter Ticket # _____

Driver's Name Gregory
Print Name _____
Phone No. _____
Truck No. 296045

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.
SHIPMENT DATE 11/13/24 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 11/13/24 DRIVER'S SIGNATURE [Signature]

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____	Name/No. <u>[Signature]</u>	

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlisbad, NM 88220
NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? _____
NAME (PRINT) [Signature] DATE 11/13 TITLE [Signature] SIGNATURE _____



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information Name Phone No

GENERATOR

NO. HW- 70774

Generator Manifest # Generator Name Address City, State, Zip Phone No

Location of Origin Lease/Well Name & No. County API No. Rig Name & No. AFE/PO No.

Table with columns for waste types (Oil Based Muds, Water Based Muds, etc.), NON-INJECTABLE WATERS, OTHER EXEMPT E&P WASTE STREAMS, and WASTE GENERATION PROCESS.

NON-EXEMPT E&P Waste/Service Identification and Amount. All non-exempt E&P waste must be analyzed and be below threshold limits for toxicity (TCDF), ignitability, corrosivity and reactivity.

DISPOSAL QUANTITY B - BARRELS L - LIQUID 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.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste.
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations.
MSDS Information
RCRA Hazardous Waste Analysis
Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety.

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name Address Phone No. Transporter Ticket #

Driver's Name Print Name Phone No. Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

Table with columns: TRUCK TIME STAMP (IN, OUT), DISPOSAL FACILITY Name/No., RECEIVING AREA

Site Name/ Permit No. Address Phone No.

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Table with columns: Feet, Inches, BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? NAME (PRINT) DATE TITLE SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

Company Man Contact Information

Name David Byrd

Phone No. _____

GENERATOR

NO. 668059

Operator No. _____
Operators Name XTO
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. Perla Verde 31 ST 1H
County Yuma
API No. 448241274955
Rig Name & No. C-114916-1001
AFE/PO No. 30-025-47013

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	INJECTABLE WATERS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	Washout Water (Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____	Completion Fluid/Flow back (Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	Produced Water (Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	Gathering Line Water/Waste (Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____	OTHER EXEMPT WASTE'S (type and generation process of the waste)	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	_____		_____
Gas Plant Waste	_____				<u>Belly dump</u>

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCSP), ignitability, corrosivity and reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: 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-OILFIELD: 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 AGENT'S NAME _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name Sentex Inc Driver's Name Cornelio
Address _____ Print Name _____
Phone No. _____ Truck No. 03

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-14-24 DRIVER'S SIGNATURE _____

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: _____ OUT: _____ Name/No. 28

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-393-1079
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS

Feet	Inches	B&W/BBLS Received	B&W (%)
Gauge		Free Water	
Oil Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? _____

NAME (PRINT) _____ DATE _____ TITLE _____ SIGNATURE _____



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 14, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PERLA VERDE 31 STATE 001 H

Enclosed are the results of analyses for samples received by the laboratory on 11/13/24 16:32.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 01 4 (H246933-01)

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	11/14/2024	ND	2.05	102	2.00	1.91	
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/14/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.679	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 02 4 (H246933-02)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/14/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 03 4 (H246933-03)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-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	11/14/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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*=Accredited Analyte

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 04 4 (H246933-04)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/14/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 05 4 (H246933-05)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	11/14/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 06 4 (H246933-06)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 07 4 (H246933-07)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 08 4 (H246933-08)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 09 4 (H246933-09)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 10 2 (H246933-10)

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	11/14/2024	ND	2.05	102	2.00	1.91		
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 11 2 (H246933-11)

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	11/14/2024	ND	2.05	102	2.00	1.91	
Toluene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	2.69	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.10	105	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.25	104	6.00	2.06	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/13/2024	ND	209	105	200	0.679	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 12 2 (H246933-12)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	QR-03
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	QR-03
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	QR-03
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/13/2024	ND	209	105	200	0.679	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 13 2 (H246933-13)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 14 2 (H246933-14)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/13/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 15 2 (H246933-15)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 16 2 (H246933-16)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 17 2 (H246933-17)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 18 2 (H246933-18)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 19 2 (H246933-19)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	209	105	200	0.679		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 20 2 (H246933-20)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/14/2024	ND	209	105	200	0.679	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	195	97.5	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: FS 21 2 (H246933-21)

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	11/14/2024	ND	1.87	93.3	2.00	12.5		
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41		
Total BTEX	<0.300	0.300	11/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/14/2024	ND	416	104	400	3.77		

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	11/14/2024	ND	236	118	200	0.0696		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 01 0-4 (H246933-22)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 02 0-4 (H246933-23)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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*=Accredited Analyte

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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:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 03 0-4 (H246933-24)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 04 0-2 (H246933-25)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/14/2024	ND	416	104	400	3.77	

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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 05 0-2 (H246933-26)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/14/2024	ND	416	104	400	0.00	QM-07

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	11/14/2024	ND	212	106	200	3.88	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.6101, -103.5042		

Sample ID: SW 06 0-2 (H246933-27)

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	11/14/2024	ND	1.87	93.3	2.00	12.5	
Toluene*	<0.050	0.050	11/14/2024	ND	1.83	91.5	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	1.97	98.5	2.00	6.33	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	5.95	99.1	6.00	4.41	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/14/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	212	106	200	3.88	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Ensochem, LLC
 Project Manager: Terry Holland
 Address: 3132 National Parks Hwy
 City: ~~Albuquerque~~ *Las Lunas* State: ~~NM~~ *NM* Zip: 491220
 Phone #: 575 937 3906 Fax #:
 Project #: 0301550509 Project Owner: XTO
 Project Name: *Perla Verde 31 State 0014*
 Project Location: 32.6101 -103.5042
 Sampler Name: *Terry Holland*
 P.O. #:
 Company: *XTO Energy Inc*
 Attn: *John Smith*
 Address: *304 Green St*
 City: *Las Lunas* State: *NM* Zip: *89200*
 Phone #:
 Fax #:
 MATRIX: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:
 PRESERV: ACID/BASE: ICE / COOL OTHER:
 SAMPLING DATE TIME

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME	ANALYSIS REQUEST
<i>1241033</i>	<i>F501</i>	<i>4</i>	<input checked="" type="checkbox"/>	<i>1</i>	<i>11/13/24</i>	<i>0900</i>	<input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> BTEX
	<i>F502</i>					<i>0905</i>	
	<i>F503</i>					<i>0910</i>	
	<i>F504</i>					<i>0915</i>	
	<i>F505</i>					<i>0925</i>	
	<i>F506</i>					<i>0930</i>	
	<i>F507</i>					<i>0935</i>	
	<i>F508</i>					<i>0940</i>	
	<i>F509</i>	<i>4</i>				<i>0945</i>	
	<i>F510</i>	<i>2</i>				<i>11/13/24</i>	

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Relinquished By: *[Signature]* Date: *11/13/24* Time: *11:33*
 Received By: *[Signature]* Date: *11/13/24* Time: *11:33*
 Verbal Results: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: *Tubing removed using ThermoFisher equipment, Kristina@cardinallab.com*
incident. APP 24 12 749555
CC: 1149661001

Delivered By: (Circle One) UPS Bus Other:
 Sample Condition: Cool Intact Yes No Yes No
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No Yes No
 Corrected Temp. °C: *3.5*



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2083

BILL TO

ANALYSIS REQUEST

Company Name: Enaolum, LLC
 Project Manager: Tracy H. Bird
 Address: 3122 Northwest A-65 Hwy
 City: ~~Marland~~ Carlsbad State: ~~NM~~ NM Zip: 88220
 Phone #: 575 457 306 Fax #: _____
 Project #: 03C1550509 Project Owner: XTO
 Project Name: Palo Verde 31 State OGH
 Project Location: 32.6101, -103.5042
 Sampler Name: Jackson Exley
 P.O. #: _____ Company: XTO Energy Inc
 Attn: Adam Brown
 Address: 3101 E Green St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
1534423	FS21	2	C	1			X					11.15.24	1450	Cl/monides
01	SW01	0-1					X					11.15.24	1450	TPL
02	SW02	0-1					X					11.15.24	1450	TSTEX
03	SW03	0-1					X					11.15.24	1450	
04	SW04	0-2					X					11.15.24	1450	
05	SW05	0-2					X					11.15.24	1450	
06	SW06	0-2					X					11.15.24	1450	

PLEASE NOTE: Lacking per Consensus, Contractor's liability and control remains limited to any tests which are conducted by the contractor for the project for the analysis. All claims, including those for negligence and any other claims whatsoever shall be directed against the contractor and not the laboratory. The laboratory is not liable for any errors or omissions in the analysis. The laboratory is not liable for any errors or omissions in the analysis. The laboratory is not liable for any errors or omissions in the analysis.

Relinquished By: *[Signature]* Date: 11-13-24
 Received By: *[Signature]* Date: 11-13-24
 Turnaround Time: _____
 Verbal Results: Yes No Add'l Phone # _____
 All Results are emailed. Please provide Email address: *Theresa@enaolum.com, Theresa@enaolum.com, Theresa@enaolum.com*
 REMARKS: *CC: 1149661001*

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Intact Yes No
 Checked By: *[Signature]*
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: _____

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



APPENDIX D

November 14, 2024, *Remediation Work Plan*



November 14, 2024

New Mexico Oil Conservation Division

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

**Re: Remediation Work Plan
Perla Verde 31 State 001H
Incident Number nAPP2412749555
API 30-025-42063
Lease Number L023780001
Lea 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 Perla Verde 31 State 001H (Site). The purpose of the assessment activities was to determine the presence or absence of impacted soil resulting from a crude oil and produced water release at the Site. The following *Work Plan* proposes to remove impacted soil identified within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 31, Township 19 South, Range 35 East, in Lea County, New Mexico (32.6101°, -103.5042°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (SLO). The Site is associated with the Perla Verde 31 State Com #001H (API: 30-025-42063) oil well on SLO lease number L023780001.

On May 2, 2024, an equipment failure resulted in the release of 3 barrels (bbls) of crude oil and 23 bbls of produced water onto the pad surface. XTO immediately dispatched a vacuum truck and 1 bbl of crude oil and 4 bbls of produced water were recovered. XTO submitted a Notification of Release (NOR) on May 6, 2024 and subsequently an Initial C-141 Application (C-141) on May 7, 2024. The release was assigned Incident Number nAPP2412749555.

On August 16, 2024, XTO submitted the following extension request to the NMOCD that was approved the same day:

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the

XTO Energy, Inc.
Remediation Work Plan
Perla Verde 31 State 001H

issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is less than 100 feet below ground surface (bgs) but greater than 50 feet bgs based on the nearest groundwater well data. On May 3, 1996, a United States Geological Survey (USGS) permitted livestock watering well (USGS 323536103301101) was advanced to a depth of 70 feet bgs. The location of the well is approximately 0.88 miles south of the release and is depicted on Figure 1. The USGS recorded the depth to water at 56.39 feet bgs. The Well Record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an seasonal dry wash, located approximately 5,100 feet north 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, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, and the New Mexico Oil Conservation Division (NMOCD) preference for data for depth to groundwater be within ½ mile and within the last 25 years, 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

CULTURAL PROPERTIES PROTECTION

Since the incident occurred on pad, the Site is exempt from the Cultural Properties Protection (CPP) Rule. As such, no additional cultural resource surveys were completed in connection with this release.

BIOLOGICAL COMPLIANCE AND REPORTING

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and/or sensitive soils.

- The Site is located within an area of possible Lesser Prairie Chickens and Dunes Sage Brush Lizards habitat.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.

XTO Energy, Inc.
Remediation Work Plan
Perla Verde 31 State 001H

- Due to the release occurring on pad surface, no suitable habitat was identified for the Dunes Sage Brush Lizards at the Site. Remediation efforts are not expected to occur outside of the pad boundaries.
- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization.
- The soil type is classified as Pyote and Maljamar fine sands according to the Web Soil Survey. Pyote and Maljamar fine sands are considered a sensitive soil by the SLO definition. The release occurred on the pad surface limiting contact with potential sensitive soils and was found to have occurred only on the pad caliche.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 29, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141, internal reports, and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

On November 12, 2024, Ensolum returned to the Site to oversee delineation activities. Delineation potholes PH01 and PH02 were advanced via backhoe to assess the vertical extent of the release to a maximum depth of 4 feet bgs. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. 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 delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): 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 Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample for PH01 and PH02, collected at 0.5 feet bgs, indicated chloride concentrations exceeded Closure Criteria. All terminal soil samples of the delineation potholes were in compliance with the Closure Criteria, successfully defining the vertical extent of the release. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exist across an approximate 4,205 square foot area and extends to depths ranging from 0.5 feet to 4 feet bgs. XTO proposes to complete the following remediation activities:

XTO Energy, Inc.
Remediation Work Plan
Perla Verde 31 State 001H

- Excavation of impacted soil to a depth of 2 feet to 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with Closure Criteria.
- An estimated 470 cubic yards of impacted soil will be excavated and disposed of at the R360 facility in Hobbs, New Mexico
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.

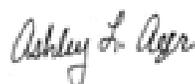
XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Ashley Ager, PG, MS
Program Director

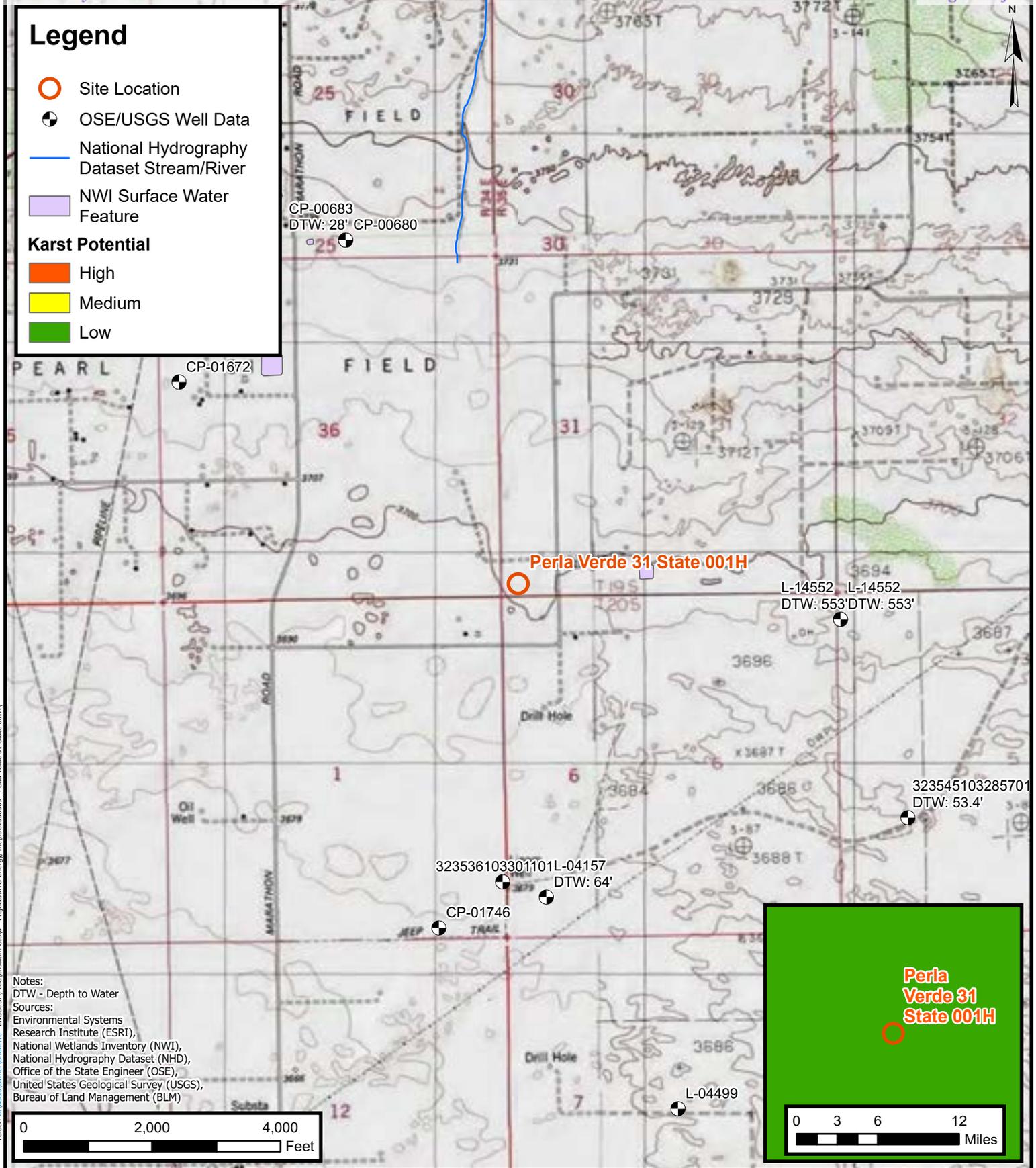
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
SLO

Appendices:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Proposed Excavation Extent
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\XTO Energy, Inc\03C1558509 - Perla Verde 31 State 001H

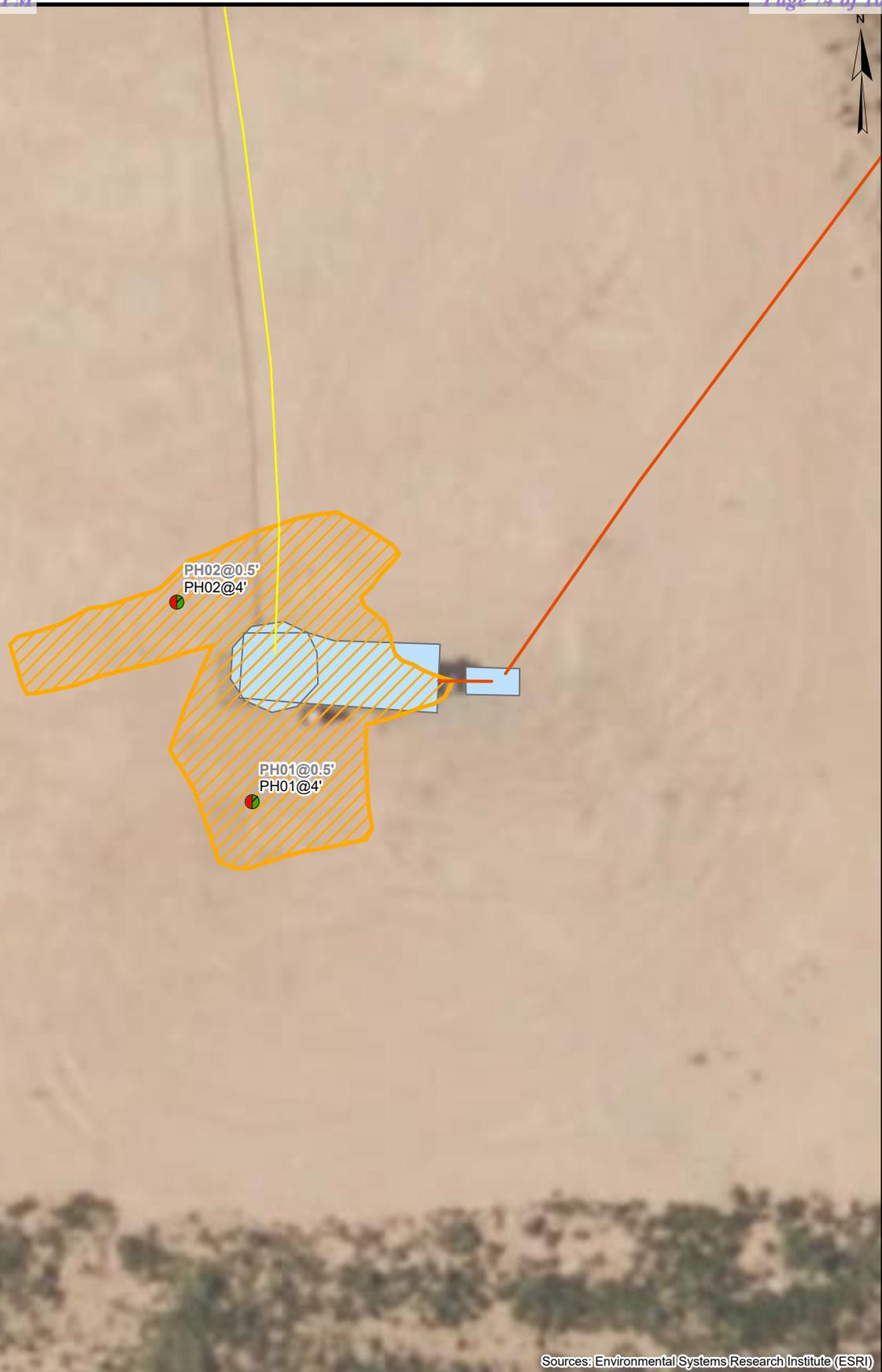


Site Receptor Map
 XTO Energy, Inc
 Perla Verde 31 State 001H
 Incident Number: nAPP2412749555
 Unit M, Sec 31, T19S, R35E
 Lea County, New Mexico

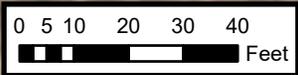
FIGURE
1

Legend

-  Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
-  Electric Utility Line
-  Oil and Gas Utility Line
-  Release Extent
-  Production Equipment



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

XTO Energy, Inc
 Perla Verde 31 State 001H
 Incident Number: nAPP2412749555
 Unit M, Sec 31, T19S, R35E
 Lea County, New Mexico

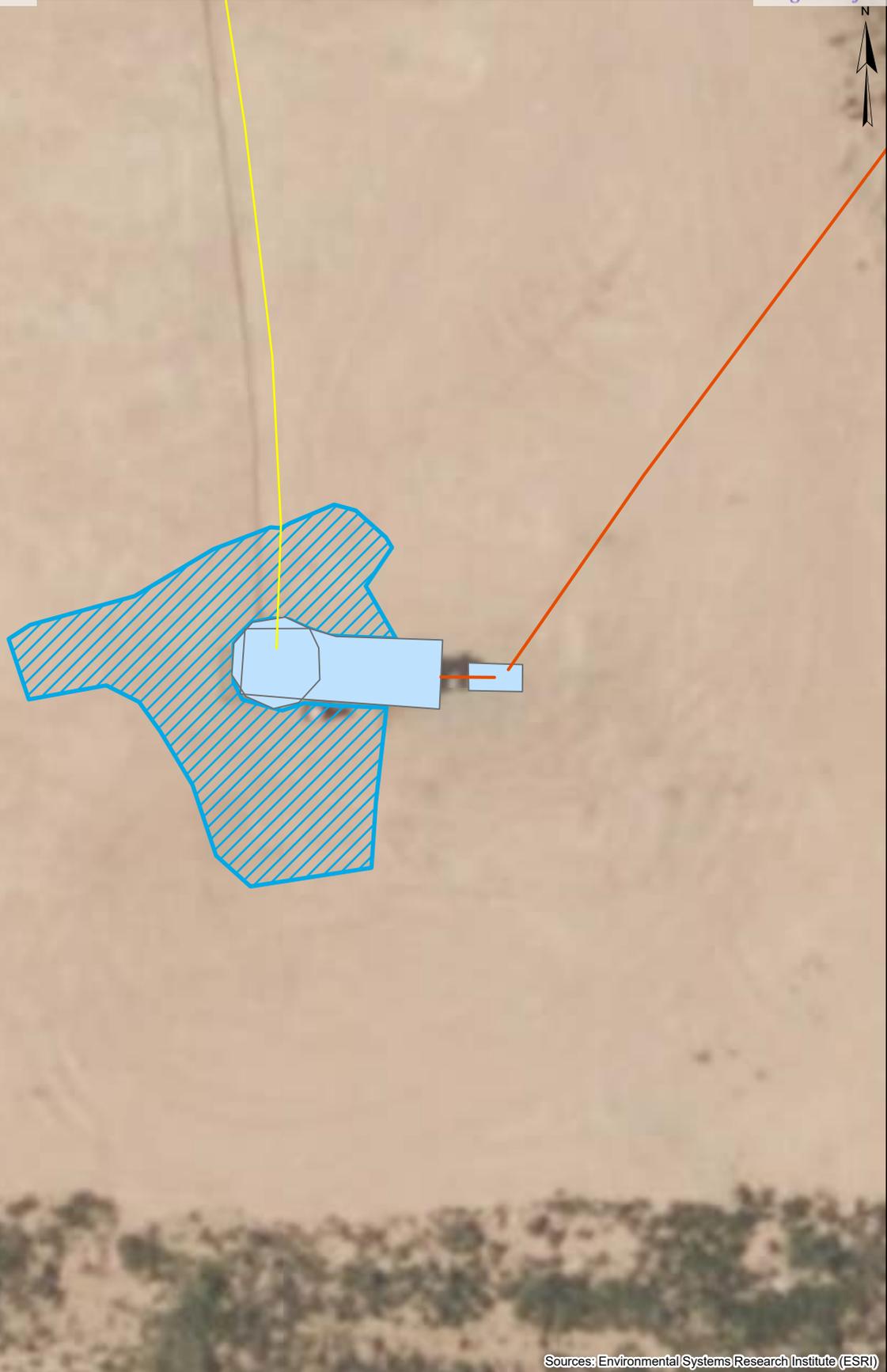
FIGURE

2



Legend

-  Electric Utility Line
-  Oil and Gas Utility Line
-  Production Equipment
-  Proposed Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Proposed Excavation Extent

XTO Energy, Inc
 Perla Verde 31 State 001H
 Incident Number: nAPP2412749555
 Unit M, Sec 31, T19S, R35E
 Lea County, New Mexico

FIGURE
3



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Perla Verde 31 State 001H
XTO Energy, Inc
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
PH01	11/12/2024	0.5	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	4,400
PH01A	11/12/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
PH02	11/12/2024	0.5	<0.050	<0.300	<10.0	70.7	10.3	70.7	81.0	3,360
PH02A	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

Notes:

bgs: below ground surface
 mg/kg: milligrams per kilogram
 NMOCD: New Mexico Oil Conservation Division
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 ORO: Oil Range Organics
 TPH: Total Petroleum Hydrocarbon
 NMAC: New Mexico Administrative Code
 Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 323536103301101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 323536103301101 20S.35E.06.331332

Lea County, New Mexico
 Latitude 32°35'50", Longitude 103°30'17" NAD27
 Land-surface elevation 3,678.00 feet above NGVD29
 The depth of the well is 70 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-08			D 62610		3619.30	NGVD29	1	Z		
1961-03-08			D 62611		3620.85	NAVD88	1	Z		
1961-03-08			D 72019	58.70			1	Z		
1971-01-21			D 62610		3620.42	NGVD29	1	Z		
1971-01-21			D 62611		3621.97	NAVD88	1	Z		
1971-01-21			D 72019	57.58			1	Z		
1976-02-19			D 62610		3616.76	NGVD29	1	Z		
1976-02-19			D 62611		3618.31	NAVD88	1	Z		
1976-02-19			D 72019	61.24			1	Z		
1986-04-02			D 62610		3621.09	NGVD29	1	Z		
1986-04-02			D 62611		3622.64	NAVD88	1	Z		
1986-04-02			D 72019	56.91			1	Z		
1991-07-03			D 62610		3623.77	NGVD29	1	Z		
1991-07-03			D 62611		3625.32	NAVD88	1	Z		
1991-07-03			D 72019	54.23			1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1996-03-05			D 62610		3621.61	NGVD29	1		S	
1996-03-05			D 62611		3623.16	NAVD88	1		S	
1996-03-05			D 72019	56.39			1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2024-08-23 09:52:10 EDT

0.32 0.22 nadww01



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc.
Perla Verde 31 State 001H
nAPP2412749555



Photograph 1

Date: May 2, 2024

Description: View of release foot print facing east.



Photograph 2

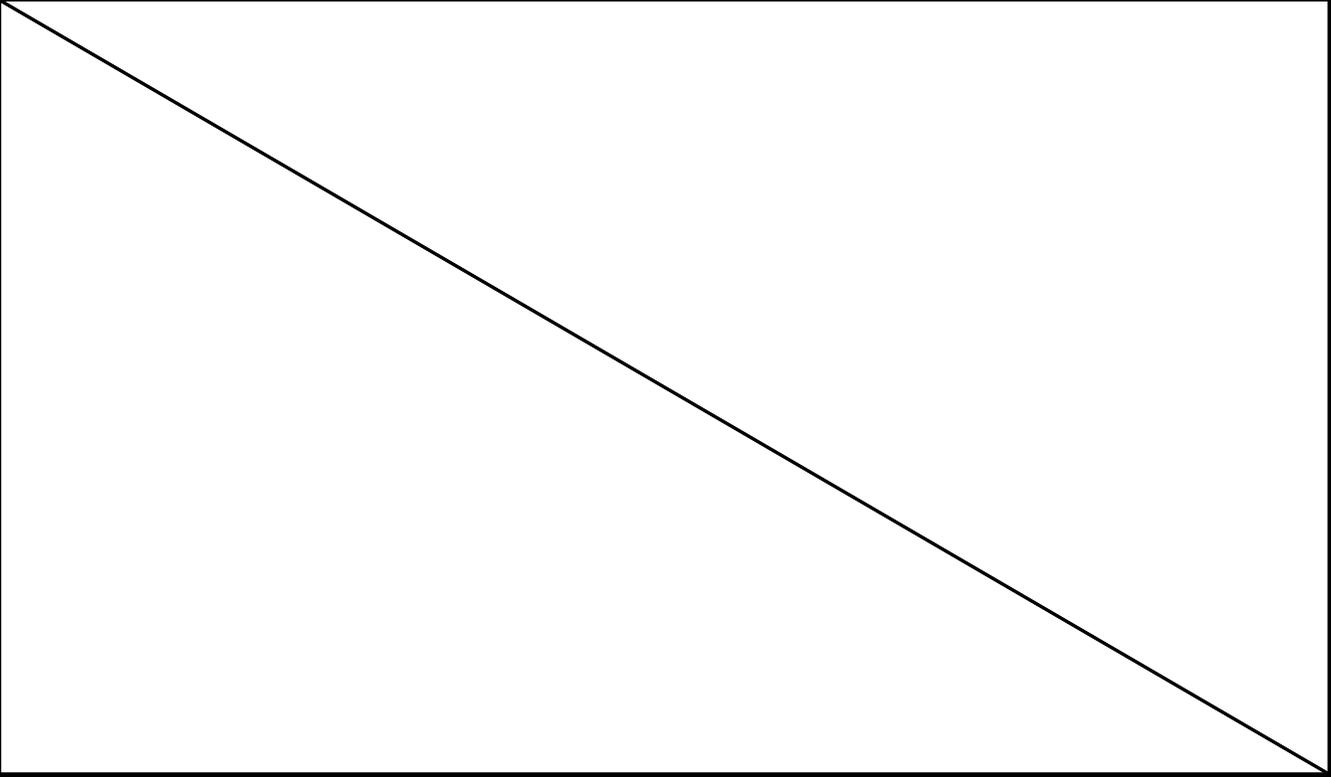
Date: August 29, 2024

Description: View of release foot print facing east.



APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: PH01		Date: 11/12/2024	
					Site Name: Perla Verde 31 State 001H			
					Incident Number: NAPP2412749555			
					Job Number: 03C1558509			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: JB		Method: Backhoe	
Coordinates: 32.609952, -103.504099					Hole Diameter: 24"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	6,356	0.0	N	PH01	0.5	0	CCHE	(0-2') CALICHE, beige, fine grained, poorly graded
D	2,346	0.0	N		1	1		
D	889	0.1	N		2	2		
D	806	0.0	N		3	3	SP	(2-4') SAND, gray brown, little clay, poorly graded
D	425	0.1	N	PH01A	4	4		
Total Depth @ 4 feet bgs								
								

					Sample Name: PH02		Date: 11/12/2024	
					Site Name: Perla Verde 31 State 001H			
					Incident Number: NAPP2412749555			
					Job Number: 03C1558509			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: JB		Method: Backhoe	
Coordinates: 32.610081, -103.504153					Hole Diameter: 24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0	CCHE	(0-2') CALICHE, tan, fine grained, poorly graded
D	5,443	0.1	N	PH02	0.5	1		
D	963	0.1	N		1	1		
D	201	0.3	N	PH02A	2	2		
						Total Depth @ 2 feet bgs		
<div style="position: absolute; top: 0; left: 0; bottom: 0; right: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div>								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 13, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PERLA VERDE 31 STATE 001 H

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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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:	11/12/2024	Sampling Date:	11/12/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.6101, -103.5042		

Sample ID: PH 01 0.5 (H246883-01)

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	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	11/13/2024	ND	416	104	400	12.2	

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	11/12/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	12.9	10.0	11/12/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/12/2024	Sampling Date:	11/12/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.6101, -103.5042		

Sample ID: PH 01A 4 (H246883-02)

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	11/12/2024	ND	2.00	100	2.00	4.01		
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33		
Total BTEX	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/13/2024	ND	416	104	400	12.2		

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	11/12/2024	ND	184	92.2	200	1.78		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	186	93.1	200	9.57		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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:	11/12/2024	Sampling Date:	11/12/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.6101, -103.5042		

Sample ID: PH 02 0.5 (H246883-03)

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	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	11/13/2024	ND	416	104	400	12.2	

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	11/13/2024	ND	184	92.2	200	1.78	
DRO >C10-C28*	70.7	10.0	11/13/2024	ND	186	93.1	200	9.57	
EXT DRO >C28-C36	10.3	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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:	11/12/2024	Sampling Date:	11/12/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PERLA VERDE 31 STATE 001 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558509	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.6101, -103.5042		

Sample ID: PH 02A 2 (H246883-04)

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	11/12/2024	ND	2.00	100	2.00	4.01		
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33		
Total BTEX	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/13/2024	ND	416	104	400	12.2		

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	11/13/2024	ND	184	92.2	200	1.78		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	186	93.1	200	9.57		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager

From: [Tacoma Morrissey](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] Re: NAPP2412749555 PERLA VERDE 31 STATE 001H
Date: Wednesday, February 12, 2025 9:57:23 AM
Attachments: [Outlook-fflejtua.png](#)
[Outlook-2pg1z1gu.png](#)
[Outlook-5ntpplcr.png](#)
[Outlook-tmsdespk](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

Apologies for the fuzziness of the photos. This happens occasionally if we have to shrink the pdf in order to send the file to the client and/or upload to the OCD portal website. We do our best to maintain the quality but sometimes the pictures end up a bit blurry. However, all photos are geolocated so that you can be oriented to determine where on the pad or around the equipment you are.

Photo 1 shows the beginning of the excavation, attached here.

Photo 2 shows the excavation facing southeast includes areas of SW05/SW06 and FS12, FS13, FS18-FS21

Photo 3 shows the excavation facing northeast and includes areas of SW01-SW03 and FS01-FS10

Photo 4 shows the backfill

Additional photos attached for your reference.

Please let me know if you have any additional questions.

Thank you,



Tacoma Morrissey
Associate Principal
337-257-8307
Ensolum, LLC
in f X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, February 12, 2025 10:41 AM
To: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: NAPP2412749555 PERLA VERDE 31 STATE 001H

[**EXTERNAL EMAIL**]

Hi Tacoma,

I am reviewing the remediation closure report for the following release and would like to receive the photos via email so I can see them clearly as they are very fuzzy, blurry, small (can not be blown up). I need to be able to see the sidewalls all around the pumpjack. Please tell me what I am looking at in Photograph 1, as it could have been taken anywhere. I would like to know what area I am looking at (for example FS12 through FS 18) for each excavation photograph. Any and all photos you have of the excavation would be helpful.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 429663

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2412749555
Incident Name	NAPP2412749555 PERLA VERDE 31 STATE 001H @ 30-025-42063
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-42063] PERLA VERDE 31 STATE COM #001H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PERLA VERDE 31 STATE 001H
Date Release Discovered	05/02/2024
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 3 BBL Recovered: 1 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 23 BBL Recovered: 4 BBL Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety 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	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/07/2025
--	--

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QUESTIONS, Page 3

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1/2 and 1 (mi.)
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	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	4400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	81
GRO+DRO (EPA SW-846 Method 8015M)	71
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	08/29/2024
On what date will (or did) the final sampling or liner inspection occur	11/13/2024
On what date will (or was) the remediation complete(d)	11/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	3827
What is the estimated volume (in cubic yards) that will be reclaimed	430
What is the estimated surface area (in square feet) that will be remediated	3827
What is the estimated volume (in cubic yards) that will be remediated	430
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	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:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/07/2025
--	--

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

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QUESTIONS, Page 5

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	400219
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/15/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	4500

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	3827
What was the total volume (cubic yards) remediated	430
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	3827
What was the total volume (in cubic yards) reclaimed	430
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site in accordance with the approved Work Plan to address the May 2024 release of produced water and crude oil. Laboratory analytical results for all final excavation soil samples indicated all contaminants of concern concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the Site was recontoured to match pre-existing site conditions.

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/07/2025
--	--

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QUESTIONS, Page 7

Action 429663

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 429663

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 429663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/12/2025