



August 1, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU BS 07-25-31 USA Battery
Incident Number nAPP2501427237
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the PLU BS 07-25-31 USA Battery (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved Remediation Work Plan (*Work Plan*), was to address impacts to soil resulting from a release of 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 nAPP2501427237.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 07, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.151704 °, -103.819292°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On January 13, 2025, injection header corrosion resulted in the release of 7 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free standing fluids, approximately 6 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and initial C-141 Application (C-141) on January 14, 2025, and the release was assigned Incident Number nAPP2501427237.

Ensolum conducted assessment and delineation activities and presented the results in a *Work Plan* submitted to the NMOCD on April 14, 2025. The *Work Plan* proposed excavation of an estimated 70 cubic yards of impacted soil identified during delineation activities, along with confirmation soil sampling. The *Work Plan* was approved by the NMOCD on May 7, 2025.

XTO Energy, Inc
PLU BS 07-25-31 USA Battery
Closure Request

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

EXCAVATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite between March 27 and May 21, 2025, to excavate impacted soil in accordance with the approved *Work Plan*. Excavation activities were performed by use of heavy equipment, hydro-vacuum truck, and transport vehicles. The excavation occurred on the well pad, near active flare equipment and surface lines. 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.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 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 CS01 through CS09 were collected from the floor of the excavation at depths ranging from 1 foot to 4 feet below ground surface (bgs). Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The final excavation extent and confirmation soil sample locations are presented on Figure 1. Photographic documentation of the excavation activities is presented on a Photographic Log 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 Hobs, New Mexico, for analysis of the following 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 Standard Method SM4500.

The final excavation extent measured approximately 1,461 square feet. A total of approximately 100 cubic yards of impacted soil was removed during the excavation activities. The soil was transported and properly disposed of at the Northern Delaware Basin Landfill Disposal Facility located in Jal, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. Soil disposal manifests are included in Appendix B.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

XTO Energy, Inc
PLU BS 07-25-31 USA Battery
Closure Request

CLOSURE REQUEST

Excavation activities were conducted at the Site as proposed in the approved *Work Plan* to address the January 13, 2025, release of produced water. The approved *Work Plan* is included in Appendix D. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation was required. The excavation will be backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

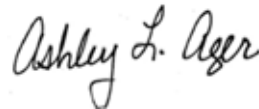
Excavation of soil has mitigated impacts exceeding the Closure Criteria at the Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2501427237.

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

Sincerely,
Ensolum, LLC



Jeremy Reich
Project Geologist



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

cc: Dale Woodall, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

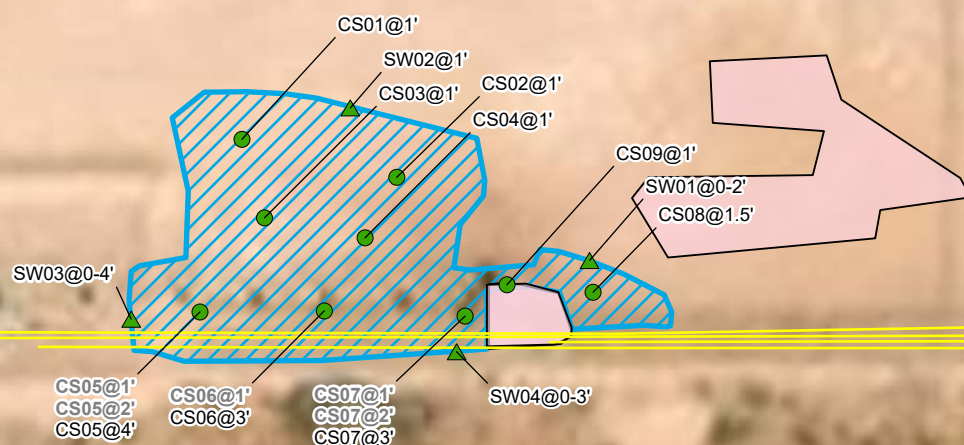
Figure 1	Confirmation Soil Sample locations
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Disposal Manifest
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	April 14, 2025, <i>Remediation Work Plan</i>



FIGURES

Legend

- Confirmation Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- Infrastructure
- Excavation Extent

**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.

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)

**Confirmation Soil Sample Location**

XTO Energy, Inc
 PLU BS 07-25-31 USA Battery
 Incident Number: nAPP2501427237
 Unit C, Section 07, T 25S, R 31E
 Eddy County, New Mexico

FIGURE**1**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU BS 07-25-31 USA Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Soil Samples										
CS01	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS02	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS03	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS04	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS05	03/27/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
CS05	04/03/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
CS05	05/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS06	03/27/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
CS06	04/03/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS07	03/27/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
CS07	04/03/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
CS07	05/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS08	02/28/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS09	05/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	03/18/2025	0-2	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW02	05/21/2025	0-1	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW03	05/21/2025	0-4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW04	05/21/2025	0-3	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Photographic Log

**Photographic Log**

XTO Energy, Inc
 PLU BS 07-25-31 USA Battery
 nAPP2501427237



Photograph: 1 Date: 3/27/25
 Description: Excavation activities near CS01, CS02
 View: Southwest



Photograph: 2 Date: 3/27/2025
 Description: Excavation activities near CS05, CS06, CS07, SW03
 View: Southeast



Photograph: 3 Date: 5/21/2025
 Description: Excavation activities near CS07, CS09, SW01, SW04
 View: Southeast



Photograph: 4 Date: 5/21/2025
 Description: Excavation activities near SW03, CS05, CS03
 View: East



Photographic Log

XTO Energy, Inc.

PLU BS 07-25-31 USA Battery

nAPP2501427237



Photograph 5

Date: 5/21/2025

Excavation activities near CS09, SW04, SW01, CS04, CS03



Photograph 6

Date: 5/21/2025

Excavation activities near CS03, CS06, SW04



APPENDIX B

Disposal Manifest

**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: Kent Ketz

(Authorized Agent's Printed Name and Title)

SIGNATURE: _____

COMPANY MAN EMAIL: _____

COMPANY MAN PHONE: _____

MANIFEST #**0389470**COMPANY NAME: XTODATE: 3 28 25LEASE: PLU 85 07-25-31 Battery

PHONE: _____

AFE #: 2501427237 API: 2126356304QUANTITY: _____ ☐ BBLsRIG NAME: 1081031001 WELL #: 03C155859420 ☒ YARDS

STATE & COUNTY ORIGIN: _____

Waste Description (check only one box)

☐ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: _____

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:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield 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)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ 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 that waste must accompany this form)

(Print) Authorized Agent's Name

Willy Wiele

Date

Signature

432 209 0851**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Sen Tex MexYARD #: 20

WHP #: _____

TRUCK #: 102

ADDRESS: _____

TICKET #: _____

ROLL OFF BIN#: _____

TRAILER #: _____

DATE _____ TIME _____ ☐ AM

DISPATCHER

DISPATCHER

RECEIVED: _____ RECEIVED: _____ ☐ PM

NAME: _____

PHONE #: _____

The following statement must be signed by the truck driver prior to unloading at disposal facility:

"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."DRIVER: Peter ThiessenDRIVER'S SIGNATURE: Peter Thiessen

(Driver's Name Printed)

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 3/28/25TIME IN: 5:36

AM / RM

TIME OUT: _____

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: _____

WASHOUT: _____

TIME IN: _____

TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM

TESTING: P

(Less than 50 MCR)

H₂O
S

Shake Out:

1	2	3

Gallon Test: _____

SERVICE NOTES:

This is to certify that: _____ Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: _____

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



OWL Landfill Services, LLC

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Kent Betz
(Authorized Agent's Printed Name and Title)

SIGNATURE: _____

COMPANY MAN EMAIL: _____

COMPANY MAN PHONE: _____

MANIFEST #

0389469

COMPANY NAME: PLU 85 07-25-31 Battery XTO

DATE: 3 28 25

LEASE: _____

PHONE: _____

A/E #: 9501427237 API: 2126356304

RIG NAME: 1081031001 WELL #: 03C1558844

QUANTITY: _____ ☐ BBLs

20 ☒ YARDS

STATE & COUNTY ORIGIN: _____

Waste Description (check only one box)

☐ **RCRA Exempt**

☐ **RCRA Non-Exempt**

☐ Water Based Cuttings (DRY)

☐ Water Based Cuttings (WET)

☐ Contaminated Soil

☐ Produced Sands

☐ Oil Based Cuttings (DRY)

☐ Oil Based Cuttings (WET)

☐ Injectable Fluids

☐ Non-Injectable Fluids

☐ Oil Base Mud

☐ Water Base Mud

☐ Muds w/Cement

☐ Tank Bottoms

☐ Rig Trash

☐ Pit Liners

Authorize Washout?

☐ Yes

☐ No

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:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield 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)

☐ SDS Information

☐ RCRA Hazardous Waste Analysis

☐ Process Knowledge

☐ 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 that waste must accompany this form)

(Print) Authorized Agent's Name

Willy Wieler

Date

Signature

439 2040851

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Semtex Mex

YARD #: _____

WHP #: _____

TRUCK #: _____

ADDRESS: _____

TICKET #: _____

ROLL OFF BIN#: _____

TRAILER #: _____

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: _____

RECEIVED: _____

☐ PM

NAME: _____

PHONE #: _____

The following statement must be signed by the truck driver prior to unloading at disposal facility:

"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Peter Thiessen

DRIVER'S SIGNATURE: Peter Thiessen

(Driver's Name Printed)

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One):

DATE: 3/28/25

TIME IN: 3:25

AM ☒ PM

TIME OUT: _____

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: _____

WASHOUT: _____

TIME IN: _____

TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS

FAIL

N/A

TCLP: PASS

FAIL

N/A

TOX: PASS

FAIL

N/A

NORM

TESTING:

(Less than 50 MCR)

H₂O

S

Shake Out:

1	2	3

Gallon Test: _____

SERVICE NOTES:

This is to certify that: _____

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: _____

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



OWL Landfill Services, LLC

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Kent ReTZ
(Authorized Agent's Printed Name and Title)

SIGNATURE: _____

COMPANY MAN EMAIL: _____

COMPANY MAN PHONE: _____

MANIFEST

428601

COMPANY NAME: X TO

DATE: 5-21-25

LEASE: PLU BS 07-25-31 Battery

PHONE: _____

API: 2126356304 Inst 2501427237

QUANTITY: 10 ☒ BBLs

RIG NAME: 03C1558594 WELL #: _____

☐ YARDS

STATE & COUNTY ORIGIN: CC 1081031001

Waste Description (check only one box)

☐ RCRA Exempt

☐ RCRA Non-Exempt

☐ Water Based Cuttings (DRY)

☐ Water Based Cuttings (WET)

☒ Contaminated Soil

☐ Produced Sands

☐ Oil Based Cuttings (DRY)

☐ Oil Based Cuttings (WET)

☐ Injectable Fluids

☐ Non-Injectable Fluids

☐ Oil Base Mud

☐ Water Base Mud

☐ Muds w/Cement

☐ Tank Bottoms

☐ Rig Trash

☐ Pit Liners

Authorize Washout?

☐ Yes

☒ No

☐ Other: _____

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:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield 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)

☐ SDS Information

☐ RCRA Hazardous Waste Analysis

☐ Process Knowledge

☐ 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 that waste must accompany this form)

(Print) Authorized Agent's Name _____

Date _____

Signature _____

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Sam Tex Mex

YARD #: _____

WHP #: _____

TRUCK #: Hydro

ADDRESS: _____

TICKET #: 428601

ROLL OFF BIN #: _____

TRAILER #: _____

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: _____

RECEIVED: _____

☐ PM

NAME: Frank Wheeler

PHONE #: 432-209-9447

The following statement must be signed by the truck driver prior to unloading at disposal facility:

"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Michael Brea

DRIVER'S SIGNATURE: Michael Brea

(Driver's Name Printed)

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One):

DATE: 5/21/25

TIME IN: 2:53

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: _____

WASHOUT: _____

TIME IN: _____

TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM TESTING:

(Less than 50 MCR)

H₂O
S

Shake Out:

1	2	3

327154

Gallon Test: _____

SERVICE NOTES:

This is to certify that: _____
Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: _____

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

REQUIRED INFORMATION

Name KENT 2012

Phone No. _____

GENERATOR

NO. **HW-757599**

Generator Manifest # _____

Location of Origin
Lease/WellPLU BS 07-25-31Generator Name XTO

Name & No.

BUTTERFLY

Address _____

County

PR

City, State, Zip _____

API No.

2501427231

Phone No. _____

Rig Name & No.

2126556304

AFE/PO No.

Project 50301558594

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 checked="" 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 AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's
NameSen Tex Max

Driver's Name

ERNESTO MONTANEZ

Address _____

Print Name

2605

Phone No. _____

Phone No.

Transporter Ticket # _____

Truck No.

601

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. OXSite Name/
Permit No.Halfway Facility / NM1-006

Phone No.

575-392-6368Address 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
1st Gauge		
2nd Gauge		
Received		

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

TITLE

SIGNATURE



OWL Landfill Services, LLC

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: Kent Betz

(Authorized Agent's Printed Name and Title)

SIGNATURE: _____

COMPANY MAN EMAIL: _____

COMPANY MAN PHONE: _____

MANIFEST #

0389471

COMPANY NAME: XTO

DATE: 3 31 25

LEASE: PLU BS 07-95-31

PHONE: _____

AFE #: 2501427937 API: 2126356304

QUANTITY: _____ ☐ BBLs

RIG NAME: 1081031001 WELL #: 361558694

20 ☒ YARDS

STATE & COUNTY ORIGIN: _____

Waste Description (check only one box)

☐ RCRA Exempt

☐ RCRA Non-Exempt

☐ Water Based Cuttings (DRY)

☐ Water Based Cuttings (WET)

☐ Contaminated Soil

☐ Produced Sands

☐ Oil Based Cuttings (DRY)

☐ Oil Based Cuttings (WET)

☐ Injectable Fluids

☐ Non-Injectable Fluids

☐ Oil Base Mud

☐ Water Base Mud

☐ Muds w/Cement

☐ Tank Bottoms

☐ Rig Trash

☐ Pit Liners

Authorize Washout?

☐ Yes

☒ No

☐ Other: _____

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:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield 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)

☐ SDS Information

☐ RCRA Hazardous Waste Analysis

☐ Process Knowledge

☐ 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 that waste must accompany this form)

(Print) Authorized Agent's Name Willy Wieler Date _____ Signature 432 209 0861

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Sem Tex Mex YARD #: 20 WHP #: _____ TRUCK #: 102

ADDRESS: _____ TICKET #: _____ ROLL OFF BIN #: _____ TRAILER #: _____

DATE RECEIVED: _____ TIME RECEIVED: _____ ☐ AM

DISPATCHER

DISPATCHER

☐ PM

NAME: _____

PHONE #: _____

The following statement must be signed by the truck driver prior to unloading at disposal facility:

"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Peter Thiessen

DRIVER'S SIGNATURE: Peter Thiessen

(Driver's Name Printed)

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One):

DATE: 3/31/25 TIME IN: 10:50 ☒ AM / PM

TIME OUT: _____ ☐ AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: _____

WASHOUT: TIME IN: _____ TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM TESTING:

(Less than 50 MCR)

Shake Out:

1	2	3

H₂O
S

Gallon Test: _____

SERVICE NOTES:

This is to certify that: _____ Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: _____

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 29, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BS 07 - 25 - 31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/22/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS 05 4' (H253092-01)

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	05/23/2025	ND	2.21	111	2.00	0.0329	
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66	
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64	
Total BTEX	<0.300	0.300	05/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	240	16.0	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 40.6-153

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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS 07 3' (H253092-02)

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	05/23/2025	ND	2.21	111	2.00	0.0329		
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66		
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20		
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64		
Total BTEx	<0.300	0.300	05/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.6 % 40.6-153

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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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS 09 1' (H253092-03)

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	05/23/2025	ND	2.21	111	2.00	0.0329	
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66	
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64	
Total BTEx	<0.300	0.300	05/23/2025	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	32.0	16.0	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 0-1' (H253092-04)

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	05/23/2025	ND	2.21	111	2.00	0.0329		
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66		
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20		
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64		
Total BTEX	<0.300	0.300	05/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 0-4' (H253092-05)

BTX 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	05/23/2025	ND	2.21	111	2.00	0.0329		
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66		
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20		
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64		
Total BTX	<0.300	0.300	05/23/2025	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	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/22/2025
Reported: 05/29/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.151704-103.819292

Sampling Date: 05/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 0-3' (H253092-06)

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	05/23/2025	ND	2.21	111	2.00	0.0329		
Toluene*	<0.050	0.050	05/23/2025	ND	2.33	116	2.00	1.66		
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.12	106	2.00	1.20		
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.34	106	6.00	1.64		
Total BTEx	<0.300	0.300	05/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/27/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2025	ND	191	95.6	200	0.573	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	189	94.5	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, 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

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mainland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476				BILL TO		ANALYSIS REQUEST																				
Company Name: Ensolum, LLC				P.O. #:																						
Project Manager: <u>Jeremy Reich</u>				Company: XTO Energy Inc																						
Address: 3122 National Parks Hwy				Attn: Colton Brown																						
City: Carlsbad		State: NM		Zip: 88220																						
Phone #: 432 296 0627		Fax #:		Address: 3104 E Green St																						
Project #: 03C1558594		Project Owner: XTO		City: Carlsbad																						
Project Name: PLV BS 07-25-31				State: NM		Zip: 88220																				
Project Location: 32.151704, -103.819292				Phone #:																						
Sampler Name: <u>Joshua Boxley</u>				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	Depth (feet)	(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		Chlorides	TPH	BTEX											
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL												OTHER:	DATE	TIME
<u>H253092</u>	1 CS05	4	C	1			X				X		5.21.25	1130	X	X	X									
	2 CS07	3					X							1025												
	3 CS09	1					X							1300												
	4 SW02	0-1					X							1215												
	5 SW03	0-4					X							1220												
	6 SW04	0-3	C	1			X				X		5.21.25	1255	X	X	X									
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																										
Relinquished By: <u>[Signature]</u>				Date: <u>5-22-25</u> Time: <u>1400</u>		Received By: <u>[Signature]</u>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>JReich@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com</u>																
Relinquished By: _____				Date: _____ Time: _____		Received By: _____				REMARKS: <u>APP2501427237</u> <u>fAPP2126356304</u> Incident: _____ Cost Center: <u>1091031001</u>																
Delivered By: (Circle One) _____				Observed Temp. °C: <u>-0.2</u> Corrected Temp. °C: <u>0.1</u>		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other: <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) <u>SK</u>		Turnaround Time: <u>5 day</u> Thermometer ID: <u>#140</u> Correction Factor: <u>+0.3</u>				Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____										
Sampler - UPS - Bus - Other: _____				Email changes to: <u>caley.keene@cardinallabsnm.com</u>																						



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

March 06, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BS 07-25-31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/04/25 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/04/2025
 Reported: 03/06/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594
 Project Location: XTO 32.151704-103.819292

Sampling Date: 02/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 08 1.5' (H251278-01)

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	03/05/2025	ND	1.88	94.1	2.00	4.34		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	108	2.00	5.75		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.19	109	2.00	5.08		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.85	114	6.00	5.17		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/05/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	205	102	200	3.45	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	196	97.9	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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

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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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Jeremy Reich Address: 601 N Marienfeld Street, suite 400 City: Midland State: TX Zip: 79701 Phone #: 432-296-0627 Fax #: Project #: 03C1558594 Project Owner: Project Name: PLU BS 07-25-31 Battery Project Location: 32.151704, -103.819292 Sampler Name: Uriel Santillana				BILL TO P.O. #: Company: XTO Energy Attn: Colton Brown Address: City: State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST																																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																													
												GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride BTEX TPH											
		1651278		CS08		1.5'		C		1						X								X				2/28/25		1447		X X X													
																																US													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 3-4-25 Time: 1405		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: jreichensolum.com kthomason@ensolum.com usantillana@ensolum.com	
Relinquished By:		Date: Time:		Received By:		REMARKS: Cost code: 1081031001 Incident #: nAPP2501427237 API: fAPP2126356304	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -1.2 Corrected Temp. °C: -0.9		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
						Turnaround Time: 48 hr Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C Sample Condition Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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



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

April 07, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BS 07-25-31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/04/25 8:48.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2025
 Reported: 04/07/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 - SPILLS
 Project Location: XTO 32.151704-103.819292

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 05 2 (H252009-01)

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	04/05/2025	ND	1.77	88.6	2.00	4.01	
Toluene*	<0.050	0.050	04/05/2025	ND	1.85	92.6	2.00	3.51	
Ethylbenzene*	<0.050	0.050	04/05/2025	ND	1.84	92.0	2.00	3.71	
Total Xylenes*	<0.150	0.150	04/05/2025	ND	6.27	105	6.00	3.66	
Total BTEX	<0.300	0.300	04/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	04/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	193	96.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	185	92.3	200	0.684	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2025
 Reported: 04/07/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 - SPILLS
 Project Location: XTO 32.151704-103.819292

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 06 3 (H252009-02)

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	04/05/2025	ND	1.77	88.6	2.00	4.01		
Toluene*	<0.050	0.050	04/05/2025	ND	1.85	92.6	2.00	3.51		
Ethylbenzene*	<0.050	0.050	04/05/2025	ND	1.84	92.0	2.00	3.71		
Total Xylenes*	<0.150	0.150	04/05/2025	ND	6.27	105	6.00	3.66		
Total BTEX	<0.300	0.300	04/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	193	96.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	185	92.3	200	0.684	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2025
 Reported: 04/07/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 - SPILLS
 Project Location: XTO 32.151704-103.819292

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 07 2 (H252009-03)

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	04/04/2025	ND	1.93	96.5	2.00	5.83		
Toluene*	<0.050	0.050	04/04/2025	ND	1.86	92.9	2.00	5.22		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	1.90	95.1	2.00	7.66		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	5.93	98.8	6.00	8.04		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1200	16.0	04/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	193	96.3	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	185	92.3	200	0.684	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager





CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		4-4-25		All Results are emailed. Please provide Email address: BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com	
Relinquished By:		Time: 8:48		REMARKS: Incident Number: 2501427237 Cost Center: 1081031001 GFCM: 48605000	
Delivered By: (Circle One)		Observed Temp. °C: -38	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) AP	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -35			Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No

PERKINS-006 R 3.2 (01/07/21)

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



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

April 01, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BS 07-25-31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 12:15.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 01 1' (H251883-01)

BTX 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	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	04/01/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 02 1' (H251883-02)

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	04/01/2025	ND	2.13	107	2.00	2.58		
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	04/01/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

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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, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 03 1' (H251883-03)

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	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	32.0	16.0	04/01/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 04 1' (H251883-04)

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	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	112	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153

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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, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 05 1' (H251883-05)

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	04/01/2025	ND	2.13	107	2.00	2.58		
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1280	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 06 1' (H251883-06)

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	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTEx	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	928	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/31/2025
 Reported: 04/01/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594 (SPILLS)
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 07 1' (H251883-07)

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	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*	<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	1090	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	203	101	200	3.83	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	205	102	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.0 % 40.6-153

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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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

101 East Mainland, Hobbs,

Company Name: Ensolum, LLC

Project Manager: *Jeremy Rich*

Address: 601 N Marienfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-296-0627 Fax #:

Project #: 03C15588544 Project Owner: XTO Energy

Project Name: PHU 07-25-31 - SPILLS

Project Location: 32.151704, -103.819292

Sampler Name: *Evan Roe*

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth
(feet)

(GRAB OR C/COMP.
CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

H251883

1 LS01
2 LS02
3 LS03
4 LS04
5 LS05
6 LS06
7 LS07

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



APPENDIX D

April 14, 2025 *Remediation Work Plan*



April 14, 2025

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

**Re: Remediation Work Plan
PLU BS 07-25-31 USA Battery
Incident Number nAPP2501427237
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the assessment activities completed to date and propose a work plan to address impacted soil identified at the PLU BS 07-25-31 USA Battery (Site). The purpose of the assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 7, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.151744°, -103.819250°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On January 13, 2025, injection header corrosion resulted in the release of 7 barrels (bbls) of produced water onto the pad surface. A vacuum truck was dispatched and 6 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and Initial C-141 Application (C-141) on January 14, 2025, and the release was assigned Incident Number nAPP2501427237.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On November 14, 2015, New Mexico Office of State Engineer (OSE) permitted well (C-3891) was advanced to a depth of 635 feet below ground surface (bgs) approximately 0.78 miles northwest of the Site. The recorded depth to groundwater was 429 feet bgs. The Well Record & Log is included in Appendix A.

XTO Energy, Inc.
Remediation Work Plan
PLU BS 07-25-31 USA Battery

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 14,618 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On January 17, 2025, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit. On January 30, 2025, Ensolum returned to the Site to complete delineation activities. Three delineation potholes (SS01 through SS03) were advanced via heavy equipment within the release extent to a maximum depth of 6 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 1-foot to 6 feet bgs. Four delineation soil samples (SS04 through SS07) were collected from a depth of 0.5 feet bgs surrounding the release extent. On March 18, 2025, Ensolum personnel returned to the Site to collect delineation soil samples from 0.5 feet bgs in the vicinity of SS01 and SS02. All soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (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 Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 and SS02 indicated chloride concentrations exceeded Closure Criteria at 0.5 feet bgs but were in compliance at depths ranging from 1-foot to 6 feet bgs. Laboratory analytical results for SS03, collected from 1-foot bgs, indicated chloride concentrations exceeded Closure Criteria but were in compliance at 2 feet bgs. Delineation soil samples SS04 through SS07 indicated all COCs were in compliance with Closure Criteria, successfully defining the lateral extent of the release, and specifically verifying the release did not extend beyond the well pad

XTO Energy, Inc.
Remediation Work Plan
PLU BS 07-25-31 USA Battery

into the pasture (see SS06). Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride concentrations exists across an approximate 1,450 square-foot area and extends to a maximum depth of 2 feet bgs. XTO proposes to complete the following remediation activities on the well pad:

- Excavation of chloride impacted soil to a maximum depth of 2 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COCs are compliant with the Closure Criteria and vertically until floor samples confirm all COCs are compliant with the Closure Criteria.
- An estimated 70 cubic yards of chloride impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

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

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



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

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM





Appendices:

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







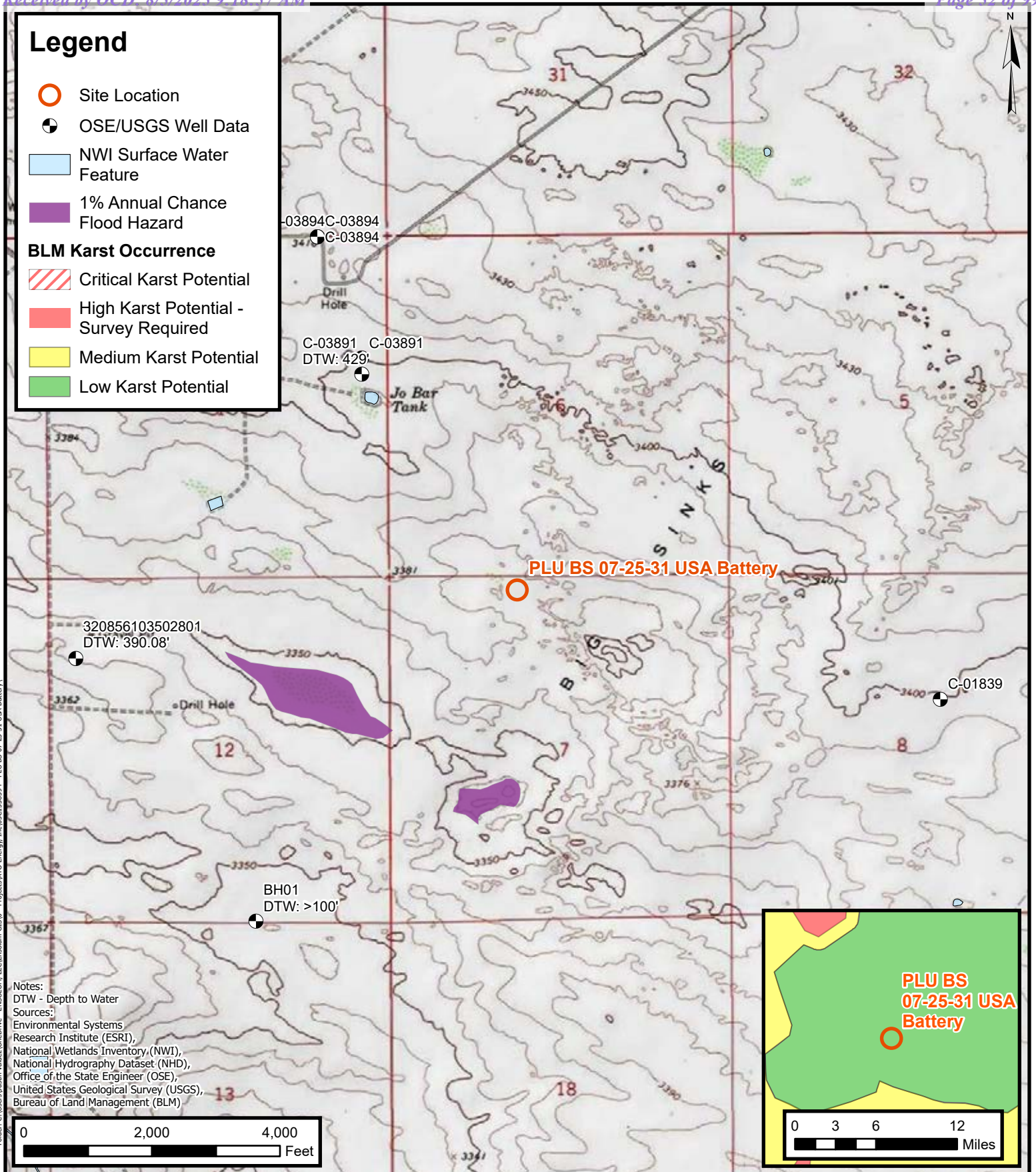
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

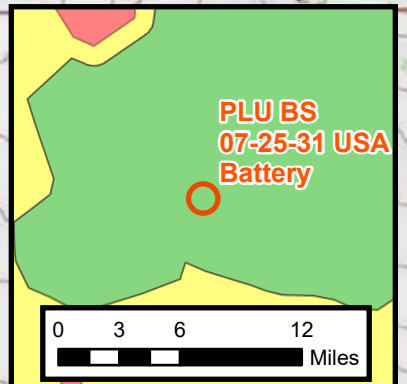
BLM Karst Occurrence

-  Critical Karst Potential
-  High Karst Potential - Survey Required
-  Medium Karst Potential
-  Low Karst Potential



Notes:
DTW - Depth to Water
Sources:
Environmental Systems
Research Institute (ESRI),
National Wetlands Inventory (NWI),
National Hydrography Dataset (NHD),
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM)

0 2,000 4,000
Feet



Site Receptor Map

XTO Energy, Inc
PLU BS 07-25-31 USA Battery
Incident Number: nAPP2501427237
Unit C, Section 07, T 25S, R 31E
Eddy County, New Mexico

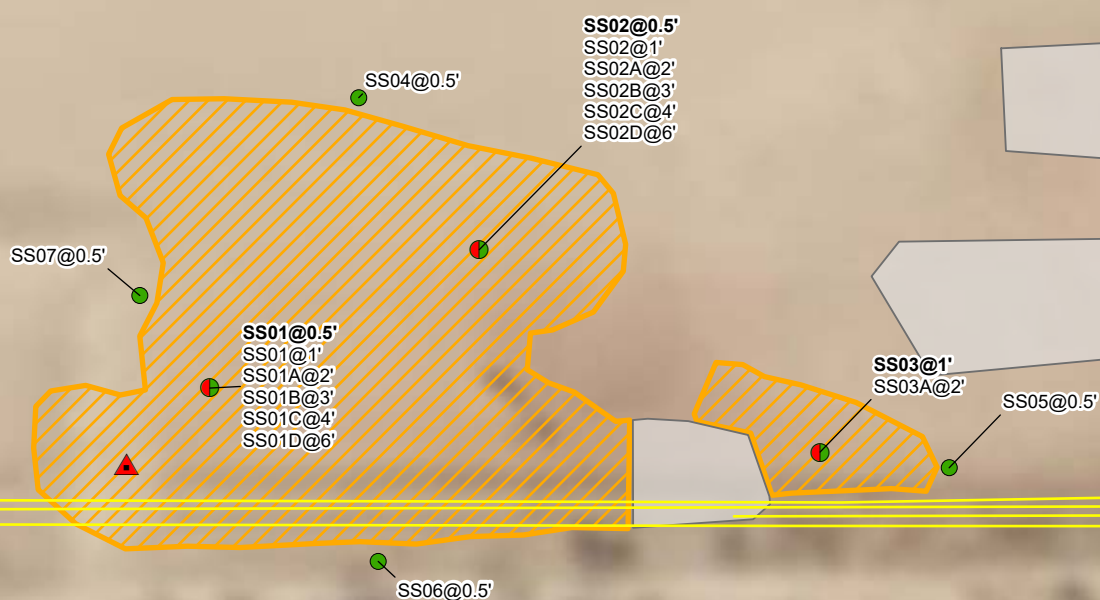
FIGURE

1

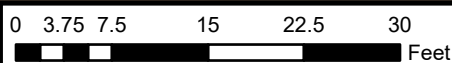
ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- 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.



Sources: Environmental Systems Research Institute (ESRI)

**Delineation Soil Sample Locations**

XTO Energy, Inc
 PLU BS 07-25-31 USA Battery
 Incident Number: nAPP2501427237
 Unit C, Section 07, T 25S, R 31E
 Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU BS 07-25-31 USA Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	03/18/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,790
SS01	01/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS01A	01/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS01B	01/30/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01C	01/30/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01D	01/30/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	03/18/2025	0.5	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	1,360
SS02	01/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02A	01/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02B	01/30/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02C	01/30/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02D	01/30/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	01/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
SS03A	01/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	01/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS05	01/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	01/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	01/30/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2015 DEC -4 AM 10: 03

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3891 POD-2				OSE FILE NUMBER(S) C-3891			
	WELL OWNER NAME(S) Enterprise Partners L.P.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 1100 Louisiana St. Rm11.104				CITY STATE ZIP Houston TX 77002			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 9 39.8 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE	103	49 37.1 W				
2. DRILLING & CASING INFORMATION	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE 15 miles southeast of Malaga, NM Section 1 Township 25S Range 30E							
	LICENSE NUMBER WD-1723		NAME OF LICENSED DRILLER Randy Stewart			NAME OF WELL DRILLING COMPANY Stewart Bros. Drilling		
	DRILLING STARTED 11/10/15	DRILLING ENDED 11/14/15	DEPTH OF COMPLETED WELL (FT) 635	BORE HOLE DEPTH (FT) 650	DEPTH WATER FIRST ENCOUNTERED (FT) 429			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 429			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	18	J-55 Steel	N/A	12.625	375	N/A
	20	459	12.250	ATSM A53 grade B steel	Weld	6.125	250	N/A
	459	460	12.250	Dissimilar metal adapter	Weld	6.125	250	N/A
	460	635	12.250	ASTM A778 304 Stainless Steel	Weld	6.125	250	1/16
	635	650	12.250	None	N/A	N/A	N/A	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	5	12.250	1/4" Pea Gravel	3	Tremie		
	5	427	12.250	Neat Cement	245	Tremie		
	427	429	12.250	#100 fine sand	2	Tremie		
	429	650	12.250	8-12 Sand	149	Tremie		

FOR OSE INTERNAL USE

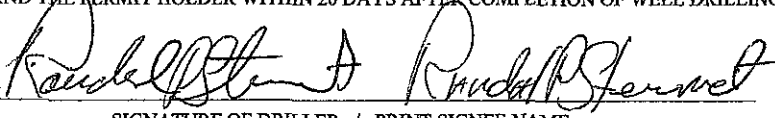
WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3891	POD NUMBER	2	TRN NUMBER	571228
LOCATION	25S.30E.1.2.44			Monitor	PAGE 1 OF 2

STATE ENGINEER OFFICE
ROS WELL, NEW MEXICO

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	2015 DEC -4 WATER 10:05 BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	20	20	Caliche- hard medium to fine sand	Y ✓ N	
	20	50	30	Sand- tan, medium to fine grained, some silt	Y ✓ N	
	50	180	130	Sand- light brown, medium to fine grained, poorly graded, some silt	Y ✓ N	
	180	200	20	Silty sand- light brown, well graded	Y ✓ N	
	200	210	10	Sand- lt. brown, medium to fine grain, poorly graded, some silt, few fine gravel	Y ✓ N	
	210	280	70	Clayey silt- reddish brown, fine to medium sand	Y ✓ N	
	280	360	80	Silty sand- light brown, medium to fine grained, reddish silt	Y ✓ N	
	360	420	60	Sand- light brown, medium to fine grained, well graded, few gravel	Y ✓ N	
	420	450	30	Sand- tan, fine grained, some silt	✓ Y N	
	450	460	10	Silty sand- reddish brown, fine to medium grained	✓ Y N	
	460	490	30	Sand, tan, fine grained, some silt	✓ Y N	
	490	500	10	Sand- tan, fine grained, some silt, few fine gravel	✓ Y N	
	500	530	30	Clayey silt- reddish brown, some fine sand	✓ Y N	
	530	635	105	Silty sand- light brown, medium to fine grained	✓ Y N	
	635	650	15	Mudstone- Red	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					33+ 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: 18 hr. drawdown= 67.5' @33gpm, well yield exceeds 33 GPM	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Danny L White	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME	12/1/15 DATE

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/08/2012)


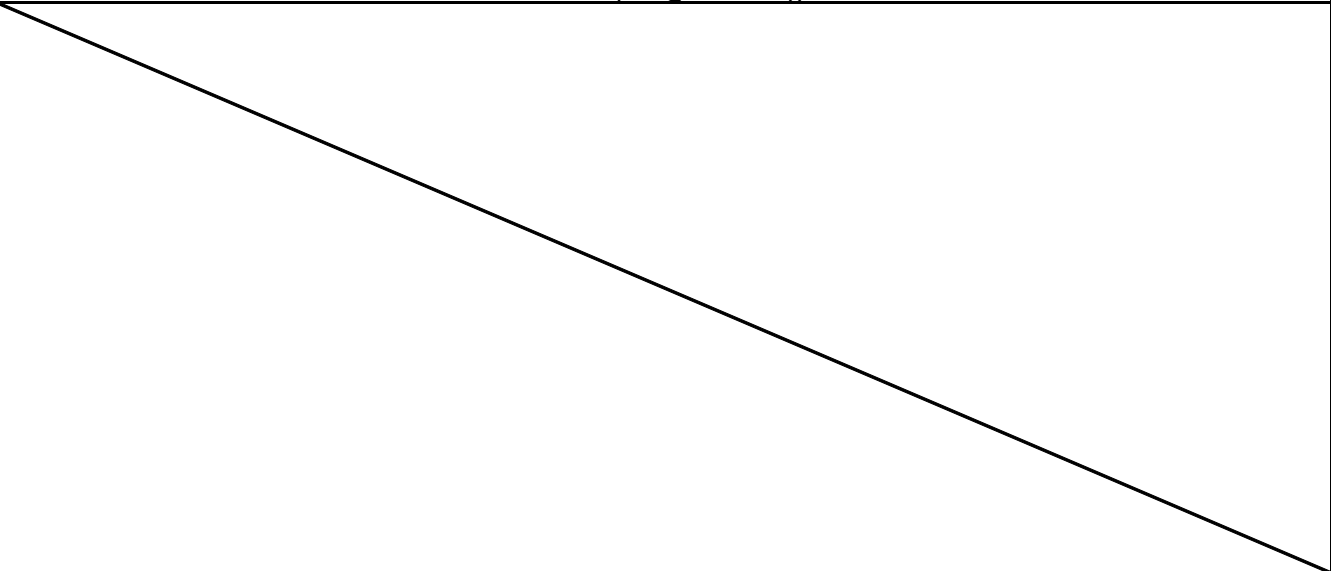
FILE NUMBER	C-3891	POD NUMBER	2	TRN NUMBER	571228
LOCATION	25S-30E-1-2-4-4	Monitor		PAGE 2 OF 2	


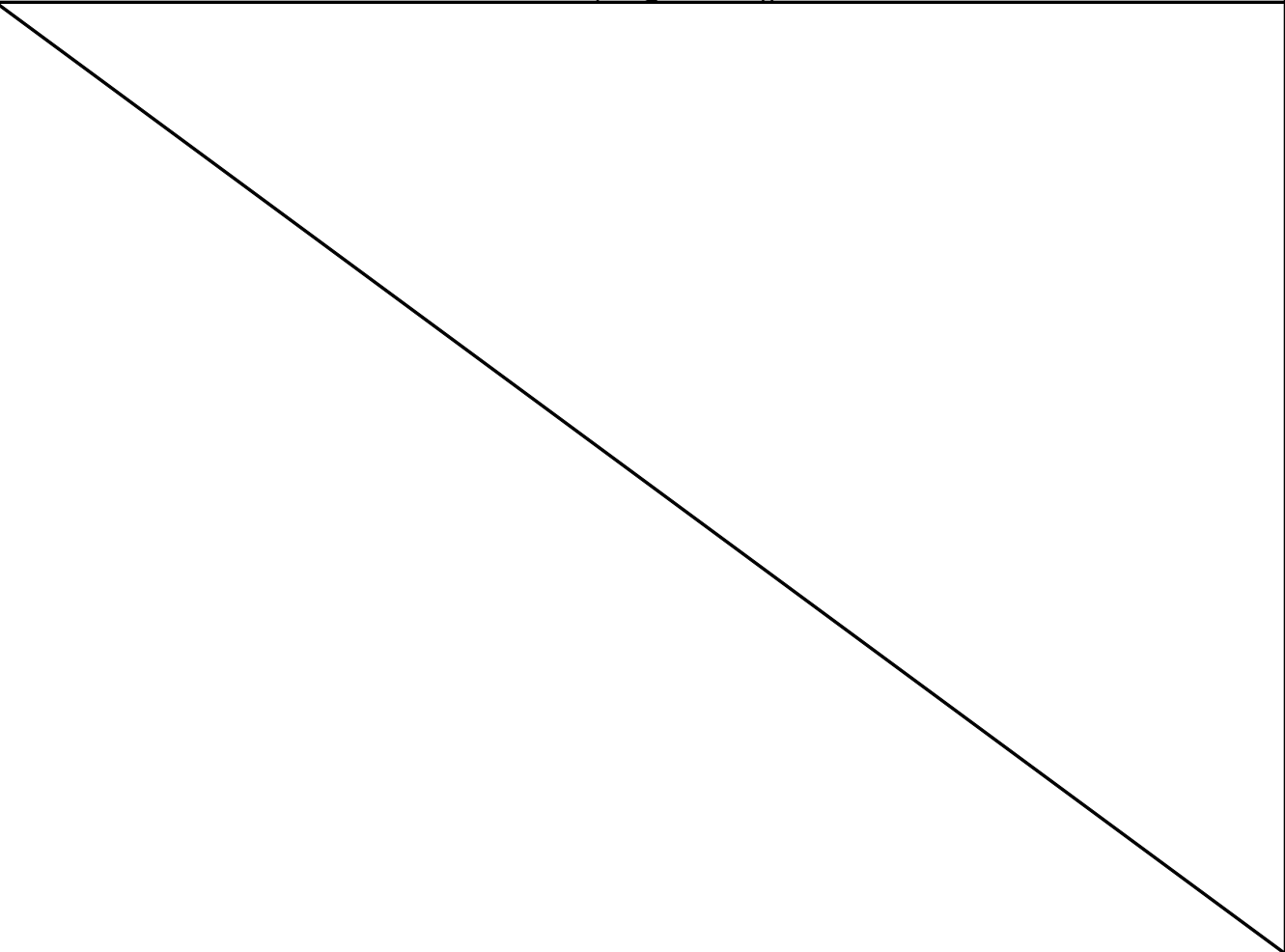


APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: SS01		Date: 1/30/2025				
		Site Name: PLU BS 07-25-31 USA Battery						
		Incident Number: nAPP2501427237						
		Job Number: 03C1558594						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.151710, -103.819313			Logged By: JDB		Method: Backhoe			
			Hole Diameter: 21"		Total Depth: 6 feet bgs			
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 for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-1') CALICHE, tan, w/gravel
D	1,713	0.1	N	SS01	0.5			
D	<162	8.6	N	SS01	1	1	SP	(1-6') SAND, red brown, fine grain, poorly graded w/silt, little clay
D	<162	4.1	N	SS01A	2	2		
D	<162	2.7	N	SS01B	3	3		
D	<162	2.8	N		4	4		
D	<162	3.2	N	SS01C	5	5		
D	<162	0.7	N	SS01D	6	6		
Total Depth @ 6 feet bgs								

 ENSOLUM		Sample Name: SS02		Date: 1/30/2025				
		Site Name: PLU BS 07-25-31 USA Battery						
		Incident Number: nAPP2501427237						
		Job Number: 03C1558594						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.151740, -103.819244			Logged By: JDB		Method: Backhoe			
			Hole Diameter: 21"		Total Depth: 6 feet bgs			
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 for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-1') CALICHE, tan, w/gravel
D	1,590	0.3	N	SS02	0.5			
D	<162	2.0	N	SS02	1	1	SP	(1-6') SAND, red brown, fine grain, poorly graded w/silt, little clay
D	<162	2.5	N	SS02A	2	2		
D	<162	1.9	N	SS02B	3	3		
D	<162	1.8	N		4	4		
D	<162	1.6	N	SS02C	5	5		
D	<162	0.8	N	SS02D	6	6		
Total Depth @ 6 feet bgs								
								

 ENSOLUM		Sample Name: SS03		Date: 1/30/2025				
		Site Name: PLU BS 07-25-31 USA Battery						
		Incident Number: nAPP2501427237						
		Job Number: 03C1558594						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.151696, -103.819160			Logged By: JDB		Method: Backhoe			
			Hole Diameter: 21"		Total Depth: 2 feet bgs			
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 for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-1') CALICHE, tan, w/gravel
D	1,842	1.2	N	SS03	1	1	SP	(1-2') SAND, red brown, fine grain, poorly graded w/silt, little clay
D	<162	0.4	N	SS03A	2	2		
Total Depth @ 2 feet bgs								
								



APPENDIX C

Photographic Log

**Photographic Log**

XTO Energy, Inc
 PLU BS 07-25-31 USA Battery
 nAPP2501427237



Photograph: 1 Date: 1/17/2025
 Description: Initial staining within release extent
 View: Southwest



Photograph: 2 Date: 1/17/2025
 Description: Initial staining within release extent
 View: East



Photograph: 3 Date: 1/30/2025
 Description: Delineation activities
 View: West



Photograph: 4 Date: 3/18/2025
 Description: Sampling activities
 View: West



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 06, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BS 07 - 25 - 31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 dark ink, appearing to read "Coley D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01 1' (H250610-01)

BTX 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	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01A 2' (H250610-02)

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	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	64.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01B 3' (H250610-03)

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	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01C 4' (H250610-04)

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	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01D 6' (H250610-05)

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	02/04/2025	ND	2.04	102	2.00	1.56	QR-03	
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15	QR-03	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72	QR-03	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16	QR-03	
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02 1' (H250610-06)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02A 2' (H250610-07)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 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



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02B 3' (H250610-08)

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	02/04/2025	ND	2.04	102	2.00	1.56	
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	<16.0	16.0	02/04/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02C 4' (H250610-09)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02D 6' (H250610-10)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 03 1' (H250610-11)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	736	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 03A 2' (H250610-12)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.4	200	0.790	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	184	92.2	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H250610-13)

BTX 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	02/04/2025	ND	2.04	102	2.00	1.56	
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16	
Total BTX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.4	200	0.790	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	184	92.2	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 05 0.5' (H250610-14)

BTX 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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.4	200	0.790	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	184	92.2	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5' (H250610-15)

BTX 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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.4	200	0.790	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	184	92.2	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/03/2025
Reported: 02/06/2025
Project Name: PLU BS 07 - 25 - 31 BATTERY
Project Number: 03C1558594
Project Location: XTO 32.15216-103.81862

Sampling Date: 01/30/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 07 0.5' (H250610-16)

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	02/04/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	02/04/2025	ND	2.21	111	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.26	113	2.00	4.72		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.66	111	6.00	5.16		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	199	99.4	200	0.790	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	184	92.2	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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

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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

(575) 393-2326 FAX (575) 393-2476				BILL TO				ANALYSIS REQUEST																											
Company Name: Ensolum, LLC				P.O. #:																															
Project Manager: <i>Jeremy Reich</i>				Company: XTO Energy Inc																															
Address: 3122 National Parks Hwy				Attn: Colton Brown																															
City: Carlsbad		State: NM Zip: 88220		Address: 3104 E Green St																															
Phone #: <i>432 286 0627</i>		Fax #:		City: Carlsbad																															
Project #: <i>03C1558594</i>		Project Owner: XTO		State: NM Zip: 88220																															
Project Name: <i>PLUTS 07-25-31 Battery</i>				Phone #:																															
Project Location: <i>3215216, -103.81862</i>				Fax #:																															
Sampler Name: Joshua Boxley																																			
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																							
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL						SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chlorides	
<i>H250610</i>																																			
<i>11</i>		<i>SS03</i>		<i>1</i>		<i>6</i>																													
<i>12</i>		<i>SS03A</i>		<i>2</i>		<i>6</i>																													
<i>13</i>		<i>SS04</i>		<i>0.5</i>		<i>6</i>																													
<i>14</i>		<i>SS05</i>		<i>1</i>		<i>6</i>																													
<i>15</i>		<i>SS06</i>		<i>1</i>		<i>6</i>																													
<i>16</i>		<i>SS07</i>		<i>0.5</i>		<i>6</i>																													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																			
Relinquished By: <i>[Signature]</i>				Date: <i>2-3-25</i> Time: <i>1300</i>				Received By: <i>[Signature]</i>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				All Results are emailed. Please provide Email address: <i>JReich @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com</i>																			
Relinquished By:				Date:				Received By:				REMARKS:				Incident: <i>nAPP 2501427237</i> <i>Fest 1013</i>																			
				Time:								Cost Center:				<i>1081031001</i>																			
Delivered By: (Circle One)				Observed Temp. °C <i>1.3</i>				Sample Condition				CHECKED BY: (Initials) <i>[Signature]</i>				Turnaround Time: <i>5 day</i>				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) Sample Condition											
Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Corrected Temp. °C <i>1.6</i>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No								Thermometer ID: <i>#140</i>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Observed Temp. °C											
Sampler - UPS - Bus - Other:																Correction Factor: <i>+0.3c</i>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Corrected Temp. °C											



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

March 26, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BS 07-25-31 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 14:14.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/20/2025
 Reported: 03/26/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H251650-01)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	03/24/2025	ND	400	100	400	3.92		

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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/20/2025
 Reported: 03/26/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H251650-02)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	03/24/2025	ND	400	100	400	3.92	

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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	10.4	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/20/2025
 Reported: 03/26/2025
 Project Name: PLU BS 07-25-31 BATTERY
 Project Number: 03C1558594
 Project Location: XTO 32.151704-103.819292

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-2' (H251650-03)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/24/2025	ND	400	100	400	3.92		

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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>Even Roe</i>		Date: <i>5-20-25</i>	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: <i>1414</i>		All Results are emailed. Please provide Email address: <i>jreich@ensolum.com</i>
Relinquished By:		Date:	Received By:	BBeill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
		Time:		REMARKS: <i>NAPP2501472037</i> <i>Cost center - 1091031001</i>
Delivered By: (Circle One)	Observed Temp. °C <i>2.8</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials) <i>[Signature]</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>3.1</i>	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
FORM-006-R-3-2-1007/21				Thermometer ID #113 <i>#110</i> Correction Factor -0.3°C <i>+0.3°C</i>

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 492084

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2501427237
Incident Name	NAPP2501427237 PLU BS 07-25-31 USA BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	PLU BS 07-25-31 USA BATTERY
Date Release Discovered	01/13/2025
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Injection Header Produced Water Released: 7 BBL Recovered: 6 BBL Lost: 1 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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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 492084

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/05/2025
--	--

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 492084

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	492084
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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (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)	1790
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10.4
GRO+DRO (EPA SW-846 Method 8015M)	10.4
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	01/17/2025
On what date will (or did) the final sampling or liner inspection occur	07/04/2025
On what date will (or was) the remediation complete(d)	07/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	1450
What is the estimated volume (in cubic yards) that will be reclaimed	70
What is the estimated surface area (in square feet) that will be remediated	1450
What is the estimated volume (in cubic yards) that will be remediated	70
<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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General Information
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Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 4

Action 492084

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	OWL LANDFILL JAL [fJEG1635837366]
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
<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>	
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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/05/2025
<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 5

Action 492084

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 492084

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	463553
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/19/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

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	1461
What was the total volume (cubic yards) remediated	100
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site as proposed in the approved Work Plan to address the January 13, 2025, release of produced water. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation was required. The excavation will be backfilled with material purchased locally and recontoured to match pre-existing Site conditions. Excavation of soil has mitigated impacts exceeding the Closure Criteria at the Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2501427237.

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/05/2025
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QUESTIONS, Page 7

Action 492084

QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 492084

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 492084
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/29/2025