



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.

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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

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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.

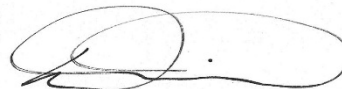
XTO will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

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

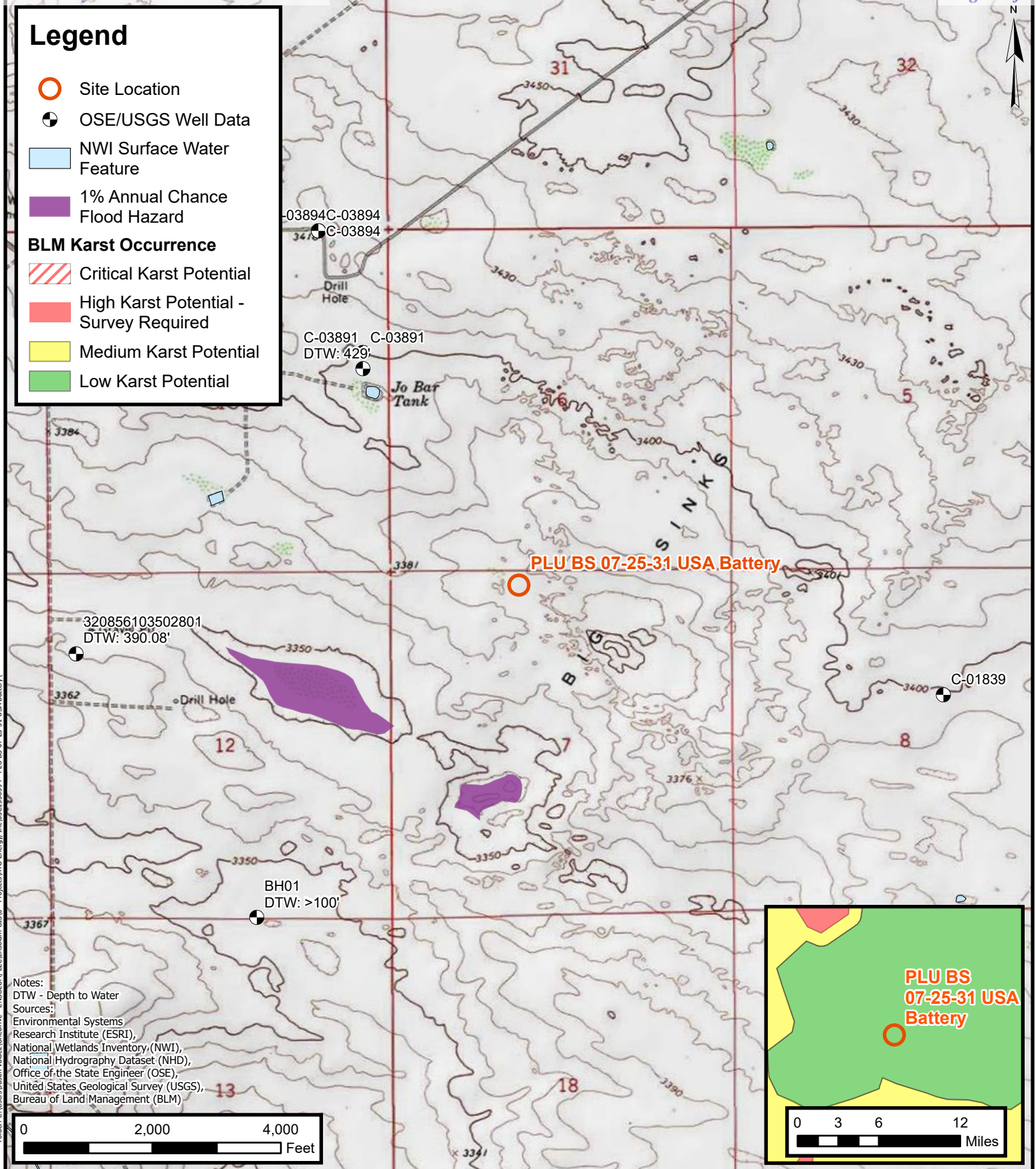
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

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



Site Receptor Map

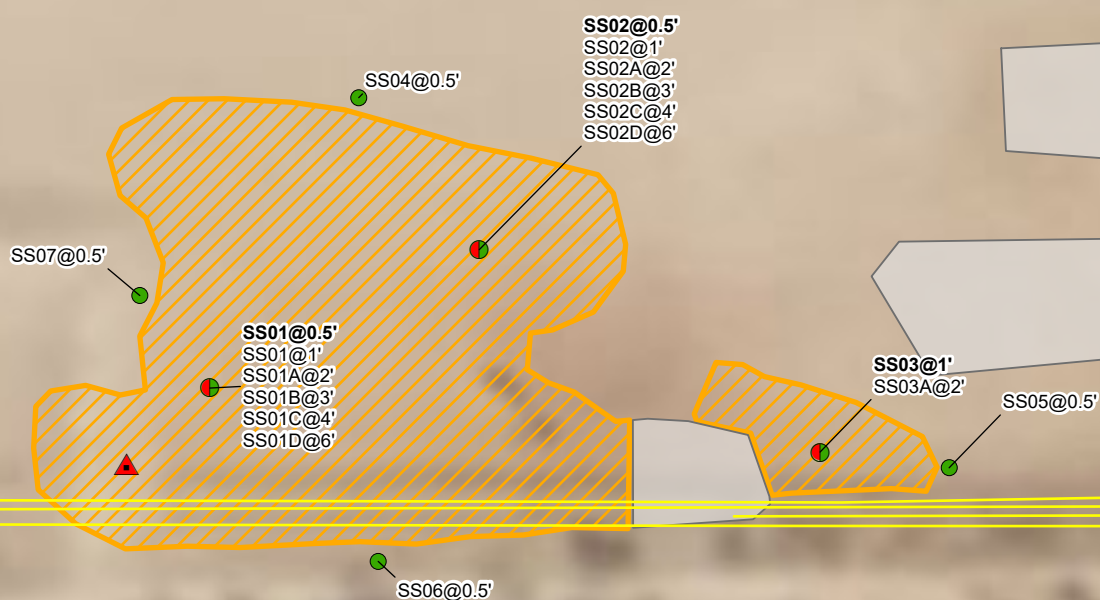
XTO Energy, Inc
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Incident Number: nAPP2501427237
Unit C, Section 07, T 25S, R 31E
Eddy County, New Mexico

FIGURE

1

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.

0 3.75 7.5 15 22.5 30
 Feet

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		
		LONGITUDE	103	49	37.1 W	* DATUM REQUIRED: WGS 84		
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								
2. DRILLING & CASING INFORMATION	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

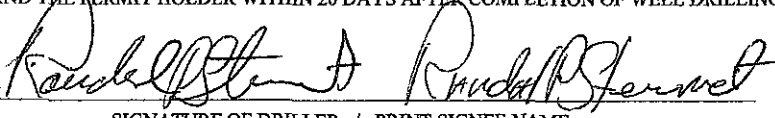
WR-20 WELL RECORD & LOG (Version 10/29/15)

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 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 USE 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


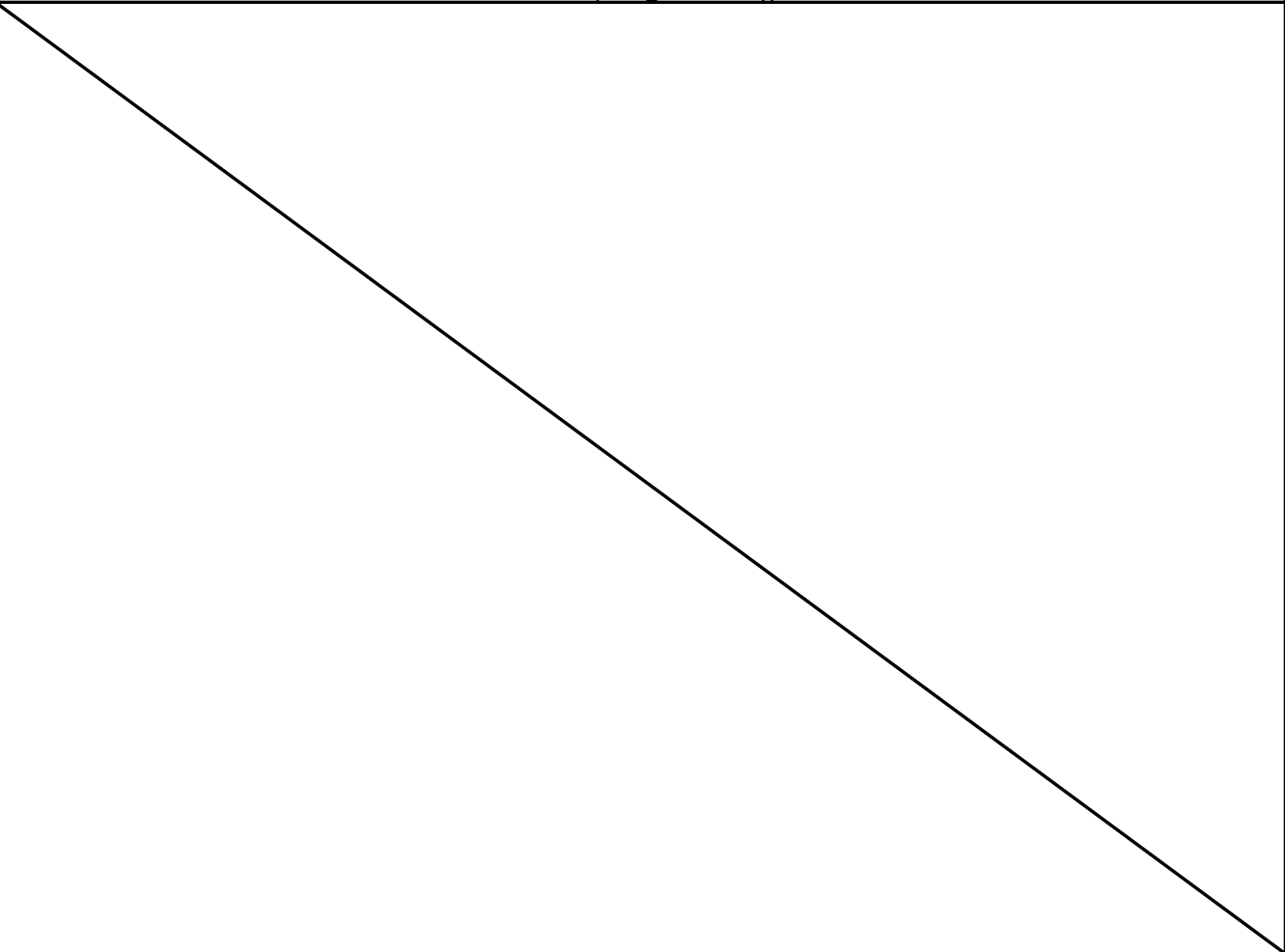


APPENDIX B

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 black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/03/2025	Sampling Date:	01/30/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	PLU BS 07 - 25 - 31 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558594	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.15216-103.81862		

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

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	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) 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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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, 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 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)

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) 118 % 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 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

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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, 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 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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 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, 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 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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 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



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 03 1' (H250610-11)

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, 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



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 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, SM4500CI-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)

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	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)

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	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, SM4500Cl-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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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 "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

1 of 2

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: <u>Jeremy Reich</u>										P.O. #:																			
Address: 3122 National Parks Hwy										Company: XTO Energy Inc																			
City: Carlsbad State: NM Zip: 88220										Attn: Colton Brown																			
Phone #: <u>432 296 0627</u> Fax #:										Address: 3104 E Green St																			
Project #: <u>03C1558594</u> Project Owner: XTO										City: Carlsbad																			
Project Name: <u>PLU BS 07-25-31 Battery</u>										State: NM Zip: 88220																			
Project Location: <u>32.15216, -103.81862</u>										Phone #:																			
Sampler Name: Joshua Boxley										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING		Chlorides		TPH		BTEX							
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<u>H250610</u>																													
<u>1</u>		<u>SS01</u>		<u>1</u>		<u>G</u>		<u>1</u>								<u>1.30.25</u> <u>1240</u>													
<u>2</u>		<u>SS01A</u>		<u>2</u>												<u>1</u> <u>1245</u>													
<u>3</u>		<u>SS01B</u>		<u>3</u>												<u>1</u> <u>1250</u>													
<u>4</u>		<u>SS01C</u>		<u>4</u>												<u>1</u> <u>1255</u>													
<u>5</u>		<u>SS01D</u>		<u>6</u>												<u>1</u> <u>1315</u>													
<u>6</u>		<u>SS02</u>		<u>1</u>												<u>1</u> <u>1325</u>													
<u>7</u>		<u>SS02A</u>		<u>2</u>												<u>1</u> <u>1330</u>													
<u>8</u>		<u>SS02B</u>		<u>3</u>												<u>1</u> <u>1333</u>													
<u>9</u>		<u>SS02C</u>		<u>4</u>												<u>1</u> <u>1340</u>													
<u>10</u>		<u>SS02D</u>		<u>6</u>		<u>G</u>		<u>1</u>								<u>1.30.25</u> <u>1340</u>													

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Relinquished By: 		Date: 2-3-25	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1:00			All Results are emailed. Please provide Email address: jreich @ensulum.com, TMorrissey@ensulum.com, KThomason@ensulum.com	
Relinquished By:		Date:	Received By:		REMARKS:	
					Incident: APP 2501427237	
		Time:			Cost Center: 1081031001	
Delivered By: (Circle One)		Observed Temp. °C 1.3	Sample Condition	CHECKED BY:	Turnaround Time: 5 day	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 1.6	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
					Cool Intact <input type="checkbox"/> Observed Temp. °C	
					Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	
					Thermometer ID: #140	
					Correction Factor: +0.3c	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																								
Project Manager: <u>Jeremy Reich</u>				P.O. #:																												
Address: 3122 National Parks Hwy				Company: XTO Energy Inc																												
City: Carlsbad		State: NM		Zip: 88220		Attn: Colton Brown																										
Phone #: <u>432 246 0627</u>		Fax #:		Address: 3104 E Green St																												
Project #: <u>03C1558594</u>		Project Owner: XTO		City: Carlsbad																												
Project Name: <u>PLUTS 07-25-31 Battery</u>				State: NM																Zip: 88220												
Project Location: <u>3215216, -103.81862</u>				Phone #:																												
Sampler Name: Joshua Boxley				Fax #:																												
FOR LAB USE ONLY																																
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		Chlorides	TPH	BTEX																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				OTHER :	DATE	TIME														
<u>H250610</u>																																
<u>11</u>	<u>SS03</u>	<u>1</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1:30.25</u>	<u>1210</u>		<u>X</u>	<u>X</u>														
<u>12</u>	<u>SS03A</u>	<u>2</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1</u>	<u>1220</u>		<u>X</u>	<u>X</u>														
<u>13</u>	<u>SS04</u>	<u>0.5</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1050</u>			<u>X</u>	<u>X</u>														
<u>14</u>	<u>SS05</u>	<u>1</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1055</u>			<u>X</u>	<u>X</u>														
<u>15</u>	<u>SS06</u>	<u>1</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1100</u>			<u>X</u>	<u>X</u>														
<u>16</u>	<u>SS07</u>	<u>0.5</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1:30.25</u>	<u>1105</u>		<u>X</u>	<u>X</u>														

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Relinquished By: <u>[Signature]</u>	Date: <u>3-3-25</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1300</u>		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	<u>JReich @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com</u>	
	Time:		REMARKS: <u>nAPP 2501427237</u> <u>Test J013</u>	
Delivered By: (Circle One)	Observed Temp. °C <u>1.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u>	Turnaround Time: <u>5 day</u> <u>#140</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>1.6</u>			Thermometer ID: <u>#140</u>
				Correction Factor: <u>+0.3c</u>
				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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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 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, 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)

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	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 BTX	<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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*=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: 03/20/2025
 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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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date: 3-20-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Evan Roe		Time: 1414		[Signature]		All Results are emailed. Please provide Email address: jmorich@ensolum.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				npp2501472837 east-center-1091031001	
Delivered By: (Circle One)		Observed Temp. °C 2.8		Sample Condition Cool Intact		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 3.1		CHECKED BY: (Initials) [Signature]		Thermometer ID #113 #110	
						Correction Factor -0.5°C +0.3°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No	
						Corrected Temp. °C	

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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 451559

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 Plan 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

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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 451559

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<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: 04/14/2025
--	--

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 451559

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 451559

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 [JEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: 04/14/2025
<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 451559

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 451559

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	446981
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/03/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 451559

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451559
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	The remediation plan is approved as written. XTO has 90-days (Aug. 5, 2025) to submit to OCD its appropriate or final remediation closure report.	5/7/2025