



June 27, 2025

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

**Re: Closure Request
PLU 29 BS West Battery
Incident Number nAPP2509134020
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 assessment, delineation, excavation, and soil sampling activities at the PLU 29 BS West Battery (Site). The purpose of the delineation, excavation, and soil sampling activities was to assess for the presence or absence of impacted soil following a release of produced water. Based on confirmation soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment, delineation, and excavation activities that have occurred and requesting no further action for Incident Number nAPP2509134020.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 29, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.104438°, -103.802166°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 30, 2025, corrosion of a surface produced water pipeline resulted in the release of approximately 17 barrels (bbls) of produced water onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 10 bbls of released produced water 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 April 1, 2025. The release was assigned Incident Number nAPP2509134020.

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. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 55 feet below ground surface (bgs) based on the nearest groundwater well data. On May 29, 2024, New Mexico Office of State Engineer (OSE) permitted well (C-4826) was advanced to a total depth of 55 feet below ground surface (bgs). The depth to groundwater boring was advanced approximately 444 feet northeast of the Site to determine the regional depth to groundwater. No moisture or groundwater was encountered during

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drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 55 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,177 feet southeast 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On March 31, 2025, Ensolum arrived at the Site to conduct site assessment activities following the produced water release. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit. Photographs were collected during the site assessment and a photographic log is included in Appendix B.

DELINEATION, EXCAVATION, AND SOIL SAMPLING ACTIVITIES

Between April 17 and May 16, 2025, Ensolum personnel returned to the Site to oversee delineation and excavation activities based on the information provided on the C-141 and visual observations. Six discrete delineation soil samples (SS01 through SS06) were collected around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. Three potholes (PH01 through PH03) were advanced via backhoe to terminal depths ranging from 3 feet to 4 feet bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5-feet bgs to 4 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during all Site activities and a photographic log is included in Appendix B. Field screening results and observations for all boreholes advanced were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations were mapped utilizing a handheld 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

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analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following SM4500.

Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. Excavation activities were performed utilizing heavy equipment and transport vehicles. The excavation occurred on the well pad near production equipment. To direct excavation activities, soil was field screened as described above. The excavation was completed to depths ranging from 3 feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples (FS01 through FS07) were collected from the floor of the excavation from a depths ranging from 3 feet to 4 feet bgs. Confirmation sidewall soil samples (SW01 through SW05) were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations were mapped utilizing a GPS unit are presented on Figure 3.

The final excavation extent measured approximately 1,354 square feet. A total of approximately 210 cubic yards of impacted soil was removed during the excavation activities. The impacted soil is in the process of being transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS06, collected outside of the release extent, indicated all COC concentrations were in compliance with the Site Closure Criteria and the strictest Table I Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results from delineation soil samples PH01, PH01B, PH02, and PH02B indicated chloride concentrations exceeded Site Closure Criteria, but these soil samples were removed during excavation activities. Analytical results for the terminal depths of all potholes advanced indicated all COC concentrations were below Closure Criteria, successfully defining the vertical extent of the release.

Laboratory analytical results for all confirmation floor and sidewall soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria and strictest Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the March 30, 2025, release of produced water. Laboratory analytical results for all confirmation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and the strictest Table I Closure Criteria. Based on soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 55 feet bgs and no other sensitive receptors were identified near the Site. XTO

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believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2509134020.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "J. Reich".

Jeremy Reich
Project Geologist

A handwritten signature in black ink, appearing to read "T Morrissey".

Tacoma Morrissey
Associate Principal

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

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



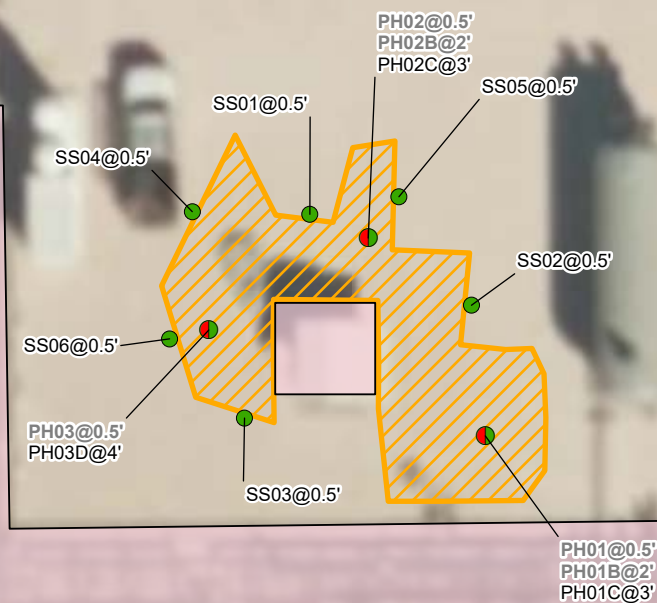
FIGURES



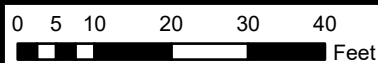
1

Legend

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



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)



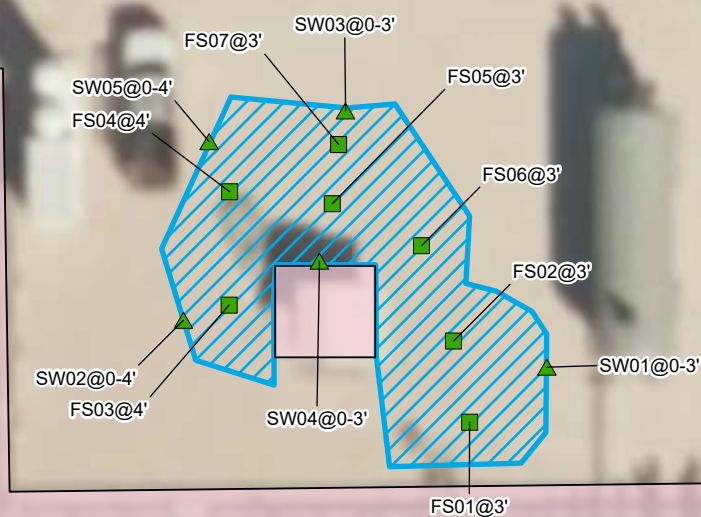
Delineation Soil Sample Locations

XTO Energy, Inc
 PLU 29 BS West Battery
 Incident Number: NAPP2509134020
 Unit F, Section 29, T 25S, R 31E
 Eddy County, New Mexico

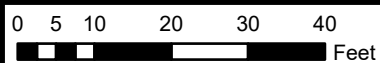
FIGURE
2

Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Confirmation Soil Sample Location**

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 Eddy County, New Mexico

FIGURE**3**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 29 BS West 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	1,000	2,500	10,000
Delineation Soil Samples										
SS01	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS02	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS03	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SS04	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS05	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS06	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH01	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,200
PH01B	04/17/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
PH01C	04/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
PH02	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,400
PH02B	04/17/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,460
PH02C	04/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
PH03	04/17/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,330
PH03D	04/17/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Confirmation Soil Samples										
FS01	05/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS02	05/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS03	05/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS04	05/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS05	05/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS06	05/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS07	05/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 29 BS West 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	1,000	2,500	10,000
SW01	05/16/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW02	05/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW03	05/16/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW04	05/16/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW05	05/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288

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

OSE DIT JUN 5 2024 #41100

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4826		WELL TAG ID NO.		OSE FILE NO(S) C-4826-POD1			
	WELL OWNER NAME(S) XTO Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3104 E. Greene Street				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 06	SECONDS 18.7344 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE -103 48 04.230 W								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 5-29-24		DRILLING ENDED 5-29-24		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 5-29-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input 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:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4826	POD NO. 1	TRN NO. 758878
LOCATION 255.31E. 29 421	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

WR-20 WELL RECORD & LOG (Version 09/22/2022)



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4826 POD 1
 Well owner: XTO Energy Phone No.: _____
 Mailing address: 3104 E. Greene Street
 City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Jason Maley
- 4) Date well plugging began: 6-3-24 Date well plugging concluded: 6-3-24
- 5) GPS Well Location: Latitude: 32 deg, 06 min, 18.7344 sec
 Longitude: -103 deg, 48 min, 04.230 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03-14-2024
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OCD OFF JUN 5 2024 #1135

- For each interval plugged, describe within the following columns:**

OGC 011 JUN 5 2024 #4135

III. SIGNATURE:

Signature of Well 1

6/3/24
Date



APPENDIX B

Photographic Log



Photographic Log
 XTO Energy Inc.
 PLU 29 BS West Battery
 Eddy County, New Mexico



Photograph: 1 Date: 4/17/2025
 Description: Delineation activities near PH01
 View: South



Photograph: 2 Date: 4/17/2025
 Description: Delineation activities near: PH03
 View: Southwest



Photograph: 3 Date: 5/15/2025
 Description: Excavation activities near SW03
 View: Southeast



Photograph: 4 Date: 5/15/2025
 Description: Excavation activities near FS06, FS07, SW04
 View: South



Photographic Log
 XTO Energy Inc.
 PLU 29 BS West Battery
 Eddy County, New Mexico



Photograph: 5 Date: 5/16/2025
 Description: Excavation activities near FS03, FS04, SW02, SW03
 View: North



Photograph: 6 Date: 5/16/2025
 Description: Excavation Activities near FS06, FS02, FS01
 View: Southwest



Photograph: 7 Date: 5/16/2025
 Description: Excavation activities near SW03, FS07, FS04, SW04
 View: Southeast





Photograph: 8 Date: 5/16/2025
 Description: Excavation activities near FS01, SW01, FS02, FS06
 View: Southwest




APPENDIX C

Lithologic Soil Sampling Logs

						Sample Name: PH01		Date: 4-17-25	
						Site Name: PLU 29 Big Sinks West Battery			
						Incident Number: nAPP2509134020			
						Job Number: 03C1558627			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Evan Roe		Method: Backhoe	
Coordinates: 32.104388, -103.802083						Hole Diameter: 4 Feet		Total Depth: 3 Feet	
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. 40% correction factor for chloride is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	13,809	0.3	Y	PH01	0.5	0	CCHE	(0-1') CALICHE. Grey and light brown. Fine grained. Uniform. Staining, no odor	
Dry	12,672	1.4	N		1	1			
Dry	700	0.8	N	PH01B	2	2	SC	(1-2') CLAYEY SAND. Dark brown. Fine grained. Uniform. No staining. Organic odor.	
Dry	364	0.6	N	PH01C	3	3	CCHE	(2-3') NATURAL CALICHE. Light brown. Course and medium. Well graded. No staining, no odor.	
						Total Depth @ 3 feet			

						Sample Name: PH02		Date: 4-17-25	
						Site Name: PLU 29 Big Sinks West Battery			
						Incident Number: nAPP2509134020			
						Job Number: 03C1558627			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Evan Roe		Method: Backhoe	
Coordinates: 32.104460, -103.802132						Hole Diameter: 4 Feet		Total Depth: 3 Feet	
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. 40% correction factor for chloride is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	12,672	0.8	N	PH02	0.5	0	CCHE	(0-1') CALICHE. Light brown. Fine. Uniform. No staining, no odor.	
Dry	10,892	0.8	N		1	1			
Dry	4,552	1.2	N	PH02B	2	2	SC	(1-2') SANDY CLAY. Brown. Fine. Uniform. No staining, no odor.	
Dry	319	0.6	N	PH02C	3	3	CCHE	(2-3') NATURAL CALICHE. White-gray, tan. Fine. Uniform. No staining, no odor.	
						Total Depth @ 3 feet			

								Sample Name: PH03		Date: 4-17-25	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2509134020			
								Job Number: 03C1558627			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Evan Roe		Method: Trackhoe	
Coordinates: 32.104428, -103.802199								Hole Diameter: 3 Feet		Total Depth: 4 Feet	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	9,452	0.4	N	PH03	0.5	0	CCHE	(0-1') CALICHE. Light brown. Fine. Uniform. No staining, no odor.			
Dry	4,950	0.9	N		1	1					
Dry	1,265	1.5	N		2	2	SC	(1-2') SANDY CLAY. Brown. Fine. Uniform. No staining. Organic odor.			
Dry	1,842	1.1	N		3	3	CCHE	(2-4') NATURAL CALICHE. Light brown-beige. Fine. Uniform. No staining, no odor.			
Dry	<162	0.7	N	PH03D	4	4	SAA				
						Total Depth @ 4 feet					



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 28, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29 BS WEST BATTERY - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 05/23/25 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 "Coley 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:	05/23/2025	Sampling Date:	05/16/2025
Reported:	05/28/2025	Sampling Type:	Soil
Project Name:	PLU 29 BS WEST BATTERY - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558627	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.10427-103.80211		

Sample ID: FS 01 3' (H253128-01)

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	05/23/2025	ND	1.99	99.6	2.00	4.71	
Toluene*	<0.050	0.050	05/23/2025	ND	1.99	99.3	2.00	3.00	
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.02	101	2.00	3.98	
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.31	105	6.00	2.97	
Total BTX	<0.300	0.300	05/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 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: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 3' (H253128-02)

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	1.99	99.6	2.00	4.71		
Toluene*	<0.050	0.050	05/23/2025	ND	1.99	99.3	2.00	3.00		
Ethylbenzene*	<0.050	0.050	05/23/2025	ND	2.02	101	2.00	3.98		
Total Xylenes*	<0.150	0.150	05/23/2025	ND	6.31	105	6.00	2.97		
Total BTEx	<0.300	0.300	05/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 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: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 4' (H253128-03)

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	05/27/2025	ND	1.96	98.1	2.00	9.88		
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25		
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71		
Total BTX	<0.300	0.300	05/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/27/2025	ND	400	100	400	7.69		

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 4' (H253128-04)

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	05/27/2025	ND	1.96	98.1	2.00	9.88		
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25		
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71		
Total BTX	<0.300	0.300	05/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/27/2025	ND	400	100	400	7.69		

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 3' (H253128-05)

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	05/27/2025	ND	1.96	98.1	2.00	9.88	
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5	
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25	
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71	
Total BTEX	<0.300	0.300	05/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 3' (H253128-06)

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	05/27/2025	ND	1.96	98.1	2.00	9.88	
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5	
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25	
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71	
Total BTX	<0.300	0.300	05/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 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: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 3' (H253128-07)

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	05/27/2025	ND	1.96	98.1	2.00	9.88		
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25		
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71		
Total BTX	<0.300	0.300	05/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/27/2025	ND	400	100	400	7.69		

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 0-3' (H253128-08)

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	05/27/2025	ND	1.96	98.1	2.00	9.88		
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25		
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71		
Total BTEx	<0.300	0.300	05/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/27/2025	ND	400	100	400	7.69		

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.4 % 40.6-153

Cardinal Laboratories

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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: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 0-4' (H253128-09)

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	05/27/2025	ND	1.96	98.1	2.00	9.88	
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5	
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25	
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71	
Total BTX	<0.300	0.300	05/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.3 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 0-3' (H253128-10)

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	05/27/2025	ND	1.96	98.1	2.00	9.88	
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5	
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25	
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71	
Total BTEX	<0.300	0.300	05/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.9 % 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: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 0-3' (H253128-11)

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	05/27/2025	ND	1.96	98.1	2.00	9.88	
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5	
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25	
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71	
Total BTEX	<0.300	0.300	05/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/27/2025	ND	400	100	400	7.69	

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 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
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/23/2025
Reported: 05/28/2025
Project Name: PLU 29 BS WEST BATTERY - SPILL
Project Number: 03C1558627
Project Location: XTO 32.10427-103.80211

Sampling Date: 05/16/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-4' (H253128-12)

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	05/27/2025	ND	1.96	98.1	2.00	9.88		
Toluene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/27/2025	ND	1.99	99.7	2.00	9.25		
Total Xylenes*	<0.150	0.150	05/27/2025	ND	6.21	103	6.00	9.71		
Total BTX	<0.300	0.300	05/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/27/2025	ND	400	100	400	7.69		

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	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/23/2025	ND	204	102	200	0.419	
EXT DRO >C28-C36	<10.0	10.0	05/23/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

P.O. #:

ANALYSIS REQUEST

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Project Name: PLU 29 B5 Wey Battery - Spill

Project Location: 3210427, -103.80211

Sample Name: Joshua Boxley

FOR LAB USE ONLY

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

TPH

BTEX

1 of 2



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

April 25, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 29 BS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 11:35.

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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H252358-01)

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	04/23/2025	ND	2.11	106	2.00	2.12	
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16	
Total BTX	<0.300	0.300	04/23/2025	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	112	16.0	04/23/2025	ND	400	100	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	04/23/2025	ND	213	107	200	1.61	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	215	108	200	0.0534	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H252358-02)

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	04/23/2025	ND	2.11	106	2.00	2.12	
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.1 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H252358-03)

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	04/23/2025	ND	2.11	106	2.00	2.12	
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16	
Total BTEx	<0.300	0.300	04/23/2025	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	368	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H252358-04)

BTEx 8021B			mg/kg		Analyzed By: JH			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 0.5' (H252358-05)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	96.0	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5' (H252358-06)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEx	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	80.0	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

[illegible]



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

April 25, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 29 BS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 11:35.

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 style with a large, stylized 'C' and 'K'.

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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01 0.5 (H252359-01)

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	04/23/2025	ND	2.11	106	2.00	2.12	
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	15200	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01B 2 (H252359-02)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	720	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01C 3 (H252359-03)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	336	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02 0.5 (H252359-04)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEX	<0.300	0.300	04/23/2025	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	14400	16.0	04/23/2025	ND	400	100	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	04/22/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02B 2 (H252359-05)

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	04/23/2025	ND	2.11	106	2.00	2.12	
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16	
Total BTEx	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	5460	16.0	04/23/2025	ND	400	100	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	04/23/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.6 % 40.6-153

Cardinal Laboratories

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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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02C 3 (H252359-06)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	336	16.0	04/23/2025	ND	400	100	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	04/23/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 0.5 (H252359-07)

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	04/23/2025	ND	2.11	106	2.00	2.12		
Toluene*	<0.050	0.050	04/23/2025	ND	2.17	109	2.00	3.52		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.24	112	2.00	3.05		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.24	104	6.00	3.16		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	9330	16.0	04/23/2025	ND	400	100	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	04/23/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 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: 04/21/2025
 Reported: 04/25/2025
 Project Name: PLU 29 BS WEST BATTERY
 Project Number: 03C1558627 (SPILLS)
 Project Location: XTO 32.10427-103.8022

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03D 4 (H252359-08)

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	04/23/2025	ND	1.78	89.0	2.00	9.54		
Toluene*	<0.050	0.050	04/23/2025	ND	1.82	90.8	2.00	8.38		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.89	94.6	2.00	7.12		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.54	92.4	6.00	5.52		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	80.0	16.0	04/23/2025	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	04/23/2025	ND	219	110	200	1.16	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	215	108	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 601 N Marientfeld Street, Suite 400

City: Midland **State:** TX **Zip:** 79701

Phone #: 432-296-0627 **Fax #:**

Project #: 03C1558627 **Project Owner:** XTO Energy

Project Name: PLU 29 BS West Battery - SPILLS

Project Location: 32.10427, -103.8022

Sampler Name: Evan Roe

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad **State:** NM **Zip:** 88220

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)COMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
PH01		0.5	G		<input checked="" type="checkbox"/>							4-17-25	1026	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH01B		2	G		<input checked="" type="checkbox"/>							4-17-25	1045	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH01C		3	G		<input checked="" type="checkbox"/>							4-17-25	1100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH02		0.5	G		<input checked="" type="checkbox"/>							4-17-25	1205	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH02B		2	G		<input checked="" type="checkbox"/>							4-17-25	1227	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH02C		3	G		<input checked="" type="checkbox"/>							4-17-25	1242	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH03		0.5	G		<input checked="" type="checkbox"/>							4-17-25	1322	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PH03D		4	G		<input checked="" type="checkbox"/>											

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Relinquished By: *Erica A*

Date: 4-21-25

Time: 1:35

Received By: *Jeremy Reich*

Date: 4-21-25

Time:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

Remarks: Incident Number: NAPP2509134020

Cost Center: 1818831001

GFCM: 48605000

Delivered By: (Circle One) ☒ Corrected Temp. °C *26*

Sampler - UPS - Bus - Other:

Sample Condition: ☒ Cool ☐ Intact

Checked By: *Erica A*

Thermometer ID: #13 #14B

Correction Factor: -0.3

Bacteria (only) Sample Condition: ☐ Cool ☐ Intact

Corrected Temp. °C:

Observed Temp. °C:

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

QUESTIONS

Action 479842

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509134020
Incident Name	NAPP2509134020 PLU 29 BS WEST 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 29 BS West Battery
Date Release Discovered	03/30/2025
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 Other (Specify) Produced Water Released: 17 BBL Recovered: 10 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	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: 06/27/2025
--	--

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QUESTIONS, Page 3

Action 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	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 ½ and 1 (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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (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)	448
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	04/17/2025
On what date will (or did) the final sampling or liner inspection occur	05/16/2025
On what date will (or was) the remediation complete(d)	05/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	1354
What is the estimated volume (in cubic yards) that will be reclaimed	210
What is the estimated surface area (in square feet) that will be remediated	1354
What is the estimated volume (in cubic yards) that will be remediated	210
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: 06/27/2025
<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 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	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 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	460045
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/12/2025
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	2600

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	1354
What was the total volume (cubic yards) remediated	210
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	1354
What was the total volume (in cubic yards) reclaimed	210
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation, and excavation activities were conducted at the Site to address the March 30, 2025, release of produced water. Laboratory analytical results for all confirmation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and the strictest Table I Closure Criteria. Based on soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 06/27/2025
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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, Page 7

Action 479842

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 479842

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 479842
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2509134020 PLU 29 BS WEST BATTERY, thank you. This Remediation Closure Report is approved.	8/8/2025