



November 25, 2024

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
PLU 28 Big Sinks West Battery  
Incident Number nAPP2424734929  
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 site assessment, excavation, and soil sampling activities at the PLU 28 Big Sinks West Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remedial activities that have occurred and requesting no further action for Incident Number nAPP2424734929.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.10425, -103.78592) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 27, 2024, corrosion on a produced water surface pipeline resulted in the release of approximately 5 barrels (bbls) of produced water onto the surface of the pad. No released fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on September 3, 2024. The release was assigned Incident Number nAPP2424734929.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to determine 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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled to investigate regional groundwater depth. In March 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-4500) was completed approximately 0.17 miles southeast of the Site utilizing hollow stem auger drilling method. Soil boring C-4500 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well 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 110 feet bgs. The

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borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The C-4500 Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,084 feet south 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 potentially unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

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: 20,000 mg/kg

## **SITE ASSESSMENT ACTIVITIES**

On August 30, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was collected and a photographic log is provided in Appendix B. Based on surficial staining of the release extent area, delineation and excavation activities were warranted.

## **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

Between November 6 and 11, 2024, Ensolum personnel were at the Site to oversee delineation and excavation activities. Delineation potholes PH01 and PH02 were advanced via backhoe to 2 feet and 3 feet bgs, respectively. Both potholes were advanced within the release extent to assess the vertical extent of the release. Soil from the delineation potholes were field screened at depths ranging from 0.5 feet to 3 feet bgs for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation pothole locations were mapped utilizing a handheld GPS system and are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by visible staining and delineation pothole field screening results. Excavation activities were performed using a trackhoe and transport vehicles. The excavation occurred on the well pad near the production equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride as described above. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag

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and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS40 were collected from the floor of the excavation at depths ranging from 1-foot to 3 feet bgs. Confirmation sidewall soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The excavation extent and confirmation soil sample locations are presented on Figure 3.

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

The final excavation extent measured approximately 7,800 square feet. A total of approximately 800 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Service in Jal, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirement, confirming the lateral and vertical extents of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted at the Site to address the August 27, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the 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 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2424734929.

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

Sincerely,  
**Ensolum, LLC**

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

Benjamin J Belill  
Senior Geologist

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

Tacoma Morrissey  
Associate Principal

XTO Energy, Inc  
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cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

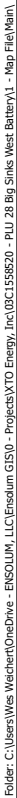
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Site Map
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



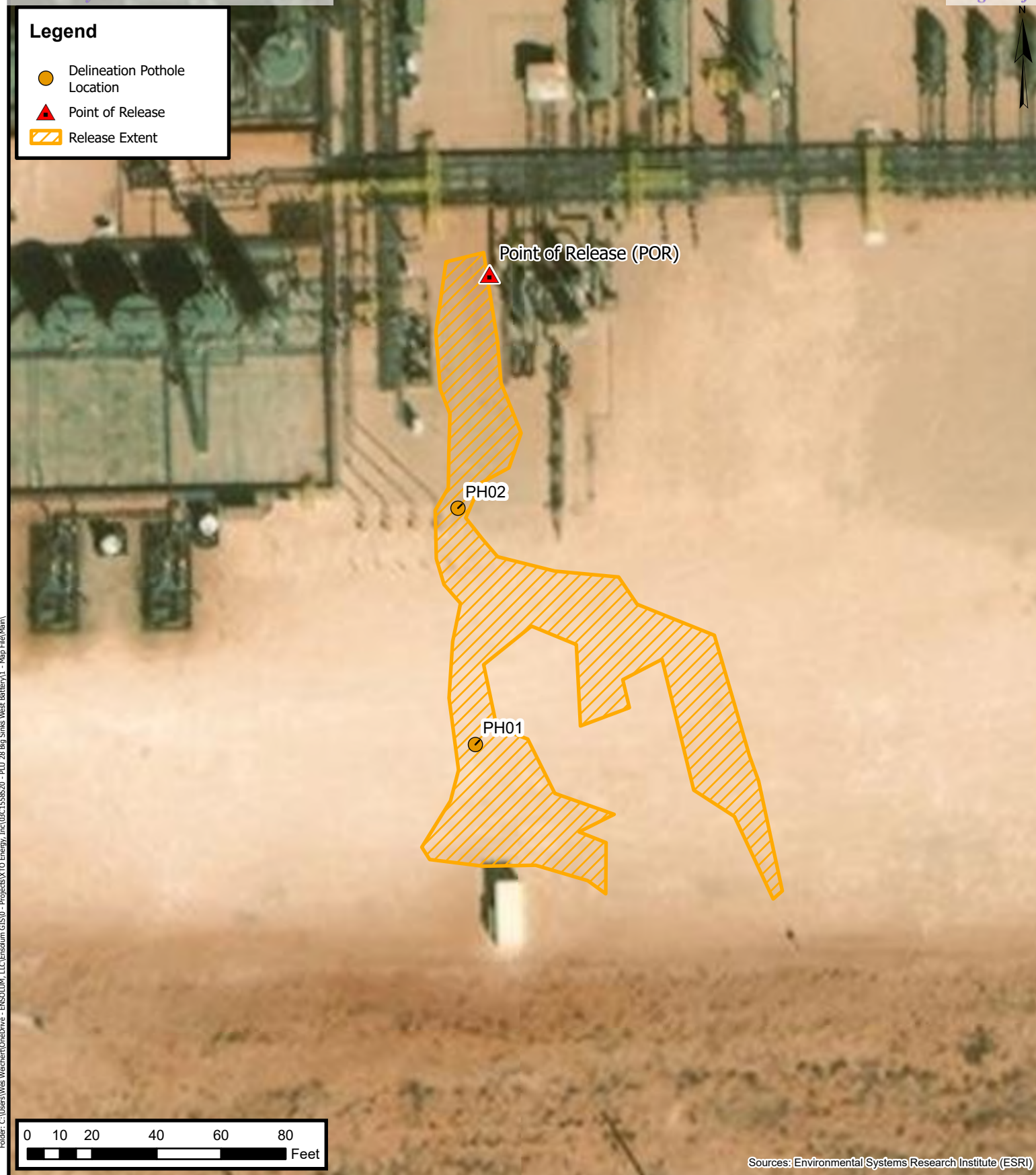
FIGURES





# FIGURE 1





## Delineation Site Map

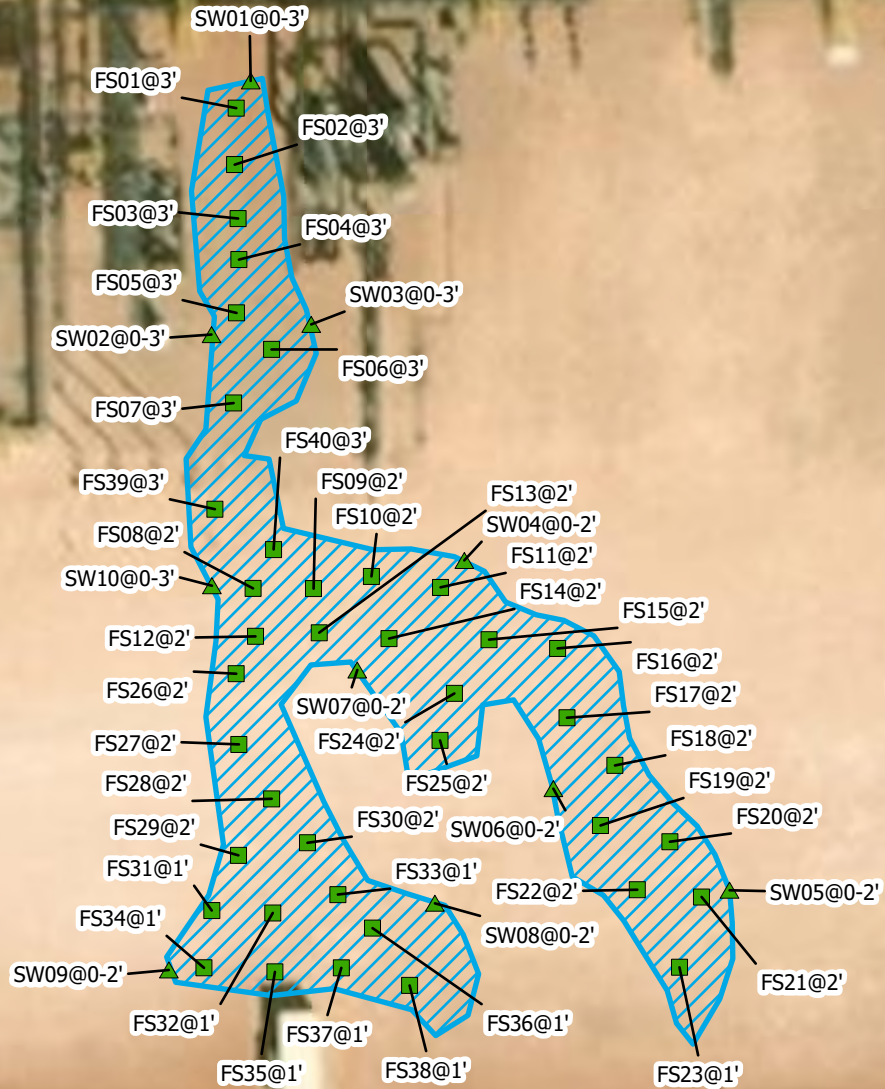
XTO Energy, Inc.  
PLU 28 Big Sinks West Battery  
Incident Number: nAPP2424734929  
Unit G, Sec 28, T25S, R31E  
Eddy Co, New Mexico, United States

**FIGURE**  
**2**

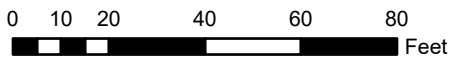


### Legend

- Excavation Floor Soil Sample Compliant with Closure Criteria
- ▲ Excavation Sidewall Soil Sample Compliant with Closure Criteria
- ▨ Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Excavation Soil Sample Locations

XTO Energy, Inc.  
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Unit G, Sec 28, T25S, R31E  
Eddy Co, New Mexico, United States

FIGURE

3





TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU 28 Big Sinks 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	20,000
Confirmation Soil Samples										
FS01	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS02	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS03	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS04	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS05	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS06	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS07	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS08	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS09	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS10	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS11	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS12	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS13	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS14	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS15	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS16	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS17	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS18	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS19	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS21	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS22	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS23	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS24	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
FS25	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS27	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS28	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
FS29	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS30	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS31	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS32	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS33	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU 28 Big Sinks 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	20,000
FS34	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS35	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS36	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS37	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS38	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS39	11/11/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS40	11/11/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW01	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW02	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW03	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW04	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW05	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW06	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW07	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW08	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW09	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW10	11/11/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code





## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4500			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 6.96 N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	47	6.75 W	• DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/24/2021		DRILLING ENDED 03/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	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	110	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4500	POD NO.	1	TRN NO.	682534
LOCATION	Exp	25S.31E.28.144	WELL TAG ID NO.	—	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, no odor, no stain, tan, light-brown	Y    ✓ N	
	1	3	2	Sand, no odor, no stain, m-f, well sorted, brown, trace silt, low consolidation	Y    ✓ N	
	3	7	4	Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive	Y    ✓ N	
	7	23	16	Caliche, tan, light brown sand, m-f grained, poorly sorted, low consolidation	Y    ✓ N	
	23	110	87	sand, brown, no odor, no stain, fine grained, well sorted, low consolidation	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):            0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge		

6. SIGNATURE	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	<div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <span>Jackie D. Atkins</span> <span>05/05/2021</span> </div>	





## APPENDIX B

### Photographic Log

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# Photographic Log

XTO Energy, Inc

PLU 28 Big Sinks West Battery

Incident Number nAPP2424734929



Photograph: 1 Date: 8/30/2024  
Description: Site assessment activities, release area.  
View: South



Photograph: 2 Date: 11/6/2024  
Description: Release area before excavation.  
View: Northwest



Photograph: 3 Date: 11/11/2024  
Description: Final excavation extent.  
View: North



Photograph: 4 Date: 11/11/2024  
Description: Final excavation extent.  
View: South





## APPENDIX C

### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>		Sample Name: PH01		Date: 11/6/2024				
		Site Name: PLU 28 Big Sinks West Battery						
		Incident Number: Napp2424734929						
		Job Number: 03C1558520						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.103760, -103.786500			Logged By: JB		Method: Backhoe			
			Hole Diameter: 1.5'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factor added to all chloride calculations.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y			0	CCHE	0-0.5', CALICHE, tan, moist, light brown staining, no odor, fill.
M	2,587	0.0	N		0.5		SP	0.5'-2', SAND, reddish-brown, moist, poorly graded, fine grained, trace clay, no stain, no odor.
M	1,293	0.0	N		1	1		
M	235	0.0	N		2	2	CCHE	@2' CALICHE, tan, moist, moderately consolidated, some small sub-angular gravel, no stain, no odor.
						3	TD	Total depth @ 2 feet bgs.
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

								Sample Name: PH02		Date: 11/6/2024	
								Site Name: PLU 28 Big Sinks West Battery			
								Incident Number: Napp2424734929			
								Job Number: 03C1558520			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JB		Method: Backhoe	
Coordinates: 32.103966, -103.786518								Hole Diameter: 1.5'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factor added to all chloride calculations.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y			0	CCHE	0-0.5', CALICHE, tan, moist, light brown staining, no odor, fill.			
M	2,772	0.0	N		0.5		SP	0.5'-2', SAND, reddish-brown, moist, poorly graded, fine grained, trace clay, no stain, no odor.			
M	2,587	0.0	N		1	1					
M	2,419	0.0	N		2	2	CCHE	@2' CALICHE, tan, moist, moderately consolidated, some small sub-angular gravel, no stain, no odor.			
M	1,103	0.0	N		3	3	TD	Total depth @ 3 feet bgs (equipment refusal)			
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

November 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/11/24 12:20.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 01 0-3 (H246852-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	256	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 11/11/2024  
 Reported: 11/12/2024  
 Project Name: PLU 28 BIG SINKS WEST BATTERY  
 Project Number: 03C1558520  
 Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 02 0-3 (H246852-02)**

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	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 03 0-3 (H246852-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	256	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 01 3 (H246852-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 02 3 (H246852-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 03 3 (H246852-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 04 3 (H246852-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 05 3 (H246852-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 06 3 (H246852-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/11/2024  
Reported: 11/12/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 07 3 (H246852-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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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

Company Name: Ensolum, LLC		P.O. #:		BILL TO										ANALYSIS REQUEST																	
Project Manager: Ben Bell		Company: XTO Energy Inc.																													
Address: 3122 National Parks Hwy		Attn: Clifton Brown																													
City: Midland, <sup>393</sup> California		Address: 3104 E Green St																													
State: TX <sup>393</sup> NA Zip:		City: <sup>393</sup> Midland																													
Phone #: 989 854 0852		State: NM Zip: 88320																													
Fax #:		Phone #:																													
Project #: 03C1558520		Project Owner: XTO																													
Project Name: PLV 28 Big Sinks West Battery		State: NM Zip: 88320																													
Project Location: 32,103617-103,74645		Phone #:																													
Sample Name: Joshua Boley		Fax #:																													
FOR LAB USE ONLY		PRESERV		SAMPLING																											
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		DATE		TIME		Chlorides		TPH		BTEX											
H246852		SW01		0-3		C		1		GROUNDWATER		11-7-24		1440		X		X		X											
1		SW02		0-3		C		1		WASTEWATER		11-7-24		1430		X		X		X											
2		SW03		0-3		C		1		SOIL		11-7-24		1440		X		X		X											
3		SW04		0-3		C		1		OIL		11-7-24		1440		X		X		X											
4		SW05		0-3		C		1		SLUDGE		11-7-24		1440		X		X		X											
5		SW06		0-3		C		1		OTHER :		11-7-24		1440		X		X		X											
6		SW07		0-3		C		1		ACID/BASE:		11-7-24		1440		X		X		X											
7		SW08		0-3		C		1		ICE / COOL		11-7-24		1440		X		X		X											
8		SW09		0-3		C		1		OTHER :		11-7-24		1440		X		X		X											
9		SW10		0-3		C		1		DATE		11-7-24		1440		X		X		X											
10		SW11		0-3		C		1		TIME		11-7-24		1440		X		X		X											
11		SW12		0-3		C		1		Chlorides		11-7-24		1440		X		X		X											
12		SW13		0-3		C		1		TPH		11-7-24		1440		X		X		X											
13		SW14		0-3		C		1		BTEX		11-7-24		1440		X		X		X											
14		SW15		0-3		C		1				11-7-24		1440		X		X		X											
15		SW16		0-3		C		1				11-7-24		1440		X		X		X											
16		SW17		0-3		C		1				11-7-24		1440		X		X		X											
17		SW18		0-3		C		1				11-7-24		1440		X		X		X											
18		SW19		0-3		C		1				11-7-24		1440		X		X		X											
19		SW20		0-3		C		1				11-7-24		1440		X		X		X											
20		SW21		0-3		C		1				11-7-24		1440		X		X		X											
21		SW22		0-3		C		1				11-7-24		1440		X		X		X											
22		SW23		0-3		C		1				11-7-24		1440		X		X		X											
23		SW24		0-3		C		1				11-7-24		1440		X		X		X											
24		SW25		0-3		C		1				11-7-24		1440		X		X		X											
25		SW26		0-3		C		1				11-7-24		1440		X		X		X											
26		SW27		0-3		C		1				11-7-24		1440		X		X		X											
27		SW28		0-3		C		1				11-7-24		1440		X		X		X											
28		SW29		0-3		C		1				11-7-24		1440		X		X		X											
29		SW30		0-3		C		1				11-7-24		1440		X		X		X											
30		SW31		0-3		C		1				11-7-24		1440		X		X		X											
31		SW32		0-3		C		1				11-7-24		1440		X		X		X											
32		SW33		0-3		C		1				11-7-24		1440		X		X		X											
33		SW34		0-3		C		1				11-7-24		1440		X		X		X											
34		SW35		0-3		C		1				11-7-24		1440		X		X		X											
35		SW36		0-3		C		1				11-7-24		1440		X		X		X											
36		SW37		0-3		C		1				11-7-24		1440		X		X		X											
37		SW38		0-3		C		1				11-7-24		1440		X		X		X											
38		SW39		0-3		C		1				11-7-24		1440		X		X		X											
39		SW40		0-3		C		1				11-7-24		1440		X		X		X											
40		SW41		0-3		C		1				11-7-24		1440		X		X		X											
41		SW42		0-3		C		1				11-7-24		1440		X		X		X											
42		SW43		0-3		C		1				11-7-24		1440		X		X		X											
43		SW44		0-3		C		1				11-7-24		1440		X		X		X											
44		SW45		0-3		C		1				11-7-24		1440		X		X		X											
45		SW46		0-3		C		1				11-7-24		1440		X		X		X											
46		SW47		0-3		C		1				11-7-24		1440		X		X		X											
47		SW48		0-3		C		1				11-7-24		1440		X		X		X											
48		SW49		0-3		C		1				11-7-24		1440		X		X		X											
49		SW50		0-3		C		1				11-7-24		1440		X		X		X											
50		SW51		0-3		C		1				11-7-24		1440		X		X		X											
51		SW52		0-3		C		1				11-7-24		1440		X		X		X											
52		SW53		0-3		C		1				11-7-24		1440		X		X		X											
53		SW54		0-3		C		1				11-7-24		1440		X		X		X											
54		SW55		0-3		C		1				11-7-24		1440		X		X		X											
55		SW56		0-3		C		1				11-7-24		1440		X		X		X											
56		SW57		0-3		C		1				11-7-24		1440		X		X		X											
57		SW58		0-3		C		1				11-7-24		1440		X		X		X											
58		SW59		0-3		C		1				11-7-24		1440		X		X		X											
59		SW60		0-3		C		1				11-7-24		1440		X		X		X											
60		SW61		0-3		C		1				11-7-24		1440		X		X		X											
61		SW62		0-3		C		1				11-7-24		1440		X		X		X											
62		SW63		0-3		C		1				11-7-24		1440		X		X		X											
63		SW64		0-3		C		1				11-7-24		1440		X		X		X											
64		SW65		0-3		C		1				11-7-24		1440		X		X		X											
65		SW66		0-3		C		1				11-7-24		1440		X		X		X											
66		SW67		0-3		C		1				11-7-24		1440		X		X		X											
67		SW68		0-3		C		1				11-7-24		1440		X		X		X											
68		SW69		0-3		C		1				11-7-24		1440		X		X		X											
69		SW70		0-3		C		1				11-7-24		1440		X		X		X											
70		SW71		0-3		C		1				11-7-24		1440		X		X		X											
71		SW72		0-3		C		1				11-7-24		1440		X		X		X											
72		SW73		0-3		C		1				11-7-24		1440		X		X		X											
73		SW74		0-3		C		1				11-7-24		1440		X		X		X											
74		SW75		0-3		C		1				11-7-24		1440		X		X		X											
75		SW76		0-3		C		1				11-7-24		1440		X		X		X											
76		SW77		0-3		C		1				11-7-24		1440		X		X		X											
77		SW78		0-3		C		1				11-7-24		1440		X		X		X											
78		SW79		0-3		C		1				11-7-24		1440		X		X		X											
79		SW80		0-3		C		1				11-7-24		1440		X		X		X											
80		SW81		0-3		C		1				11-7-24		1440		X		X		X											
81		SW82		0-3		C		1				11-7-24		1440		X		X		X											
82		SW83		0-3		C		1				11-7-24		1440		X		X		X											
83		SW84		0-3		C		1				11-7-24		1440		X		X		X											
84		SW85		0-3		C		1				11-7-24		1440		X		X		X											
85		SW86		0-3		C		1				11-7-24		1440		X		X		X											
86		SW87		0-3		C		1				11-7-24		1440		X		X		X											
87		SW88		0-3		C		1				11-7-24		1440		X		X		X											
88		SW89		0-3		C		1				11-7-24		1440		X		X		X											
89		SW90		0-3		C		1				11-7-24		1440		X		X		X											
90		SW91		0-3		C		1				11-7-24		1440		X		X		X											
91		SW92		0-3		C		1				11-7-24		1440																	



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

November 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/12/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 04 0-2' (H246880-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 05 0-2' (H246880-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 06 0-2' (H246880-03)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 07 0-2' (H246880-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 08 0-2' (H246880-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 09 0-2' (H246880-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 10 0-3' (H246880-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 08 2' (H246880-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 09 2' (H246880-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	176	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 10 2' (H246880-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEx	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 11 2' (H246880-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 12 2' (H246880-12)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	112	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 13 2' (H246880-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 14 2' (H246880-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 15 2' (H246880-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 16 2' (H246880-16)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 17 2' (H246880-17)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 18 2' (H246880-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	192	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 19 2' (H246880-19)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	144	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 20 2' (H246880-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	112	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 21 2' (H246880-21)**

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 22 2' (H246880-22)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 23 1' (H246880-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 24 2' (H246880-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 25 2' (H246880-25)**

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	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 26 2' (H246880-26)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEx	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 27 2' (H246880-27)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEx	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 28 2' (H246880-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 29 2' (H246880-29)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 30 2' (H246880-30)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 31 1' (H246880-31)**

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	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 32 1' (H246880-32)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEx	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 33 1' (H246880-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 34 1' (H246880-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 35 1' (H246880-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 36 1' (H246880-36)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 37 1' (H246880-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 38 1' (H246880-38)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 39 3' (H246880-39)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	208	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 11/12/2024  
Reported: 11/13/2024  
Project Name: PLU 28 BIG SINKS WEST BATTERY  
Project Number: 03C1558520  
Project Location: XTO 32.10381-103.78643

Sampling Date: 11/11/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 40 3' (H246880-40)**

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	11/13/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82	
Total BTX	<0.300	0.300	11/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-05            The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Company Name: Ensolum, LLC

Project Manager: Ben Belill

Address: 3122 National Parks Hwy

City: ~~Midland~~ <sup>Midland</sup> ~~Carlsbad~~ State: ~~NM~~ <sup>NM</sup> Zip: 88220

Phone #: 949 454 0852 Fax #:

Project #: 0301554520 Project Owner: XTO

Project Name: PLU 26 Big Sinks West Battery

Project Location: 32.10381, -103.78645

Sampler Name: Joshua Boley

## BILL TO

## ANALYSIS REQUEST

1 of 4

P.O. #:

Company: XTO Energy Inc

Attn: ~~Colton Brown~~

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

FOR LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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Relinquished By:

Date: 11-12-24

Received By:

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 11-12-24

Received By:

REMARKS:

Incident: WAP 24 24134929

LC-2191461001

Delivered By: (Circle One)

Observed Temp.: 2.3

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp.: 1.7

Cool Intact

Yes

Thermometer ID

70-412124

Correction Factor

Observed Temp.: 1.7

FORM-006 R 3.2 10/07/21

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: ~~Midland~~ <sup>Tybe</sup> ~~Cal's~~ <sup>nd</sup> State: ~~TX~~ <sup>NM</sup> Zip: 88220

Phone #: 949 4524 0452 Fax #:

Project #: 0301554520 Project Owner: XTO

Project Name: PLV 26 Big Sinks West Battery

Project Location: 32.10381, -103.78613

Sampler Name: Joshua Boxley

BILL TO ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc

Attn: ~~Colton~~ <sup>Ben</sup> ~~Brown~~

Address: 3101 E Green St

City: ~~Cal's~~ <sup>nd</sup> State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D. Depth (feet)

H246880

11 F311

12 F312

13 F313

14 F314

15 F315

16 F316

17 F317

18 F318

19 F319

20 F320

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :

DATE TIME  
11.11.24 0905  
0920  
0925  
0930  
0935  
0940  
1000  
1005  
1035  
1040

CHLORIDES  
TPH  
BTEX

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Relinquished By:

Date: 11-12-24

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition  
Cool Intact  
Yes ☒ No ☐

CHECKED BY:  
(Initials)

Turnaround Time:

Standard

Bacteria (only)  
Cool Intact  
Yes ☐ No ☐

Sample Condition  
Observed Temp. °C

Corrected Temp. °C

FORM-008 R3.2 10/07/21

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476  
Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Midland State: TX Zip: 79701

Phone #: 989 454 0852 Fax #:

Project #: 0301554520 Project Owner: XTO

Project Name: PLU 26 Big Snks West Battery

Project Location: 32.10381, -103.74645

Sampler Name: Joshua Boxley

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc

Attn: Colleen Brown

Address: 3101 E Green St

City: Midland

State: NM Zip: 88220

Phone #:

Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING		Chlorides	TPH	BTEX	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE				TIME
H344880																		
21	F521	2	C	1										11/1/24	1045	X	X	X
23	F522	2	C	1										11/1/24	1050	X	X	X
23	F523	1	C	1										11/1/24	1340	X	X	X
24	F524	2'	C	1										11/1/24	1115	X	X	X
25	F525	2	C	1										11/1/24	1120	X	X	X
26	F526	2	C	1										11/1/24	1345	X	X	X
27	F527	2	C	1										11/1/24	1605	X	X	X
28	F528	2	C	1										11/1/24	1610	X	X	X
29	F529	2	C	1										11/1/24	1615	X	X	X
30	F530	2	C	1										11/1/24	1620	X	X	X

LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be held liable for incidental or consequential damages, including without limitation, business income loss, loss of profits, loss of data, or any other such damages, whether or not such damages are foreseeable. The limitation of liability and the waiver of damages shall not apply to claims for personal injury, death, or property damage.

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

Relinquished By: [Signature]

Date: 11-12-24

Received By: [Signature]

Date: 11-12-24

Received By: [Signature]

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

All Results are emailed. Please provide Email address: BBelli@ensolum.com

REMARKS:

Incident - WAPP 242134929

Turnaround Time: 11/1/24 1601

Standard ☐ Rush ☒

Thermometer ID: 4444444

Correction Factor: -0.5°C

Turnaround Time: 11/12/24

Bacteria (only) Sample Condition: ☐ Cool ☐ Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

FORM-000 R-3.2 10/07/21

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





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

QUESTIONS

Action 406403

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406403
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424734929
Incident Name	NAPP2424734929 PLU 28 BIG SINKS 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 28 Big Sinks West Battery
Date Release Discovered	08/27/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Other (Specify)   Produced Water   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	PW line on scrubber



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Action 406403

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406403
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a 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	Not answered.

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: 11/25/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 406403

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406403
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	416
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	11/07/2024
On what date will (or did) the final sampling or liner inspection occur	11/11/2024
On what date will (or was) the remediation complete(d)	11/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	7800
What is the estimated volume (in cubic yards) that will be reclaimed	800
What is the estimated surface area (in square feet) that will be remediated	7800
What is the estimated volume (in cubic yards) that will be remediated	800
<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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Action 406403

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406403
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	OWL LANDFILL JAL [fJEG1635837366]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: 11/25/2024
<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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Action 406403

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406403
	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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Action 406403

**QUESTIONS (continued)**

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	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	400225
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/11/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	8000

**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	7800
What was the total volume (cubic yards) remediated	800
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	7800
What was the total volume (in cubic yards) reclaimed	800
Summarize any additional remediation activities not included by answers (above)	"Site assessment, delineation and excavation activities were conducted at the Site to address the August 27, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the 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 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2424734929."

*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: 11/25/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------------------------

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Action 406403

QUESTIONS (continued)

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	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 406403

CONDITIONS

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	Action Number:  406403
	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 #NAPP2424734929 PLU 28 BIG SINKS WEST BATTERY, thank you. This Remediation Closure Report is approved.	12/26/2024