



August 19, 2025

New Mexico Oil Conservation Division

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

**Re: Deferral Request
PLU 28 BS West Battery
Incident Number nAPP2514734962
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document site assessment, delineation, and soil sampling activities at the PLU 28 BS 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 produced water release on the pad surface. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing remediation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2514734962 until the Site is reconstructed, and/or the well pad is abandoned.

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 (32.104362 °, -103.786086°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 22, 2025, corrosion of a produced water surface pipeline resulted in the release of 11 barrels (bbls) of produced water onto the surface of the pad, around active production equipment and pipelines. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 7 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and an Initial C-141 Application (C-141) on May 27, 2025. The release was assigned Incident Number nAPP2514734962.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In March 2021, a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE), C-4500, was completed approximately 0.16 miles south 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 borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 11,478 feet southwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On May 22, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit. On June 4 and June 5, 2025, Ensolum personnel returned to the Site to conduct delineation activities. Eight delineation soil samples, SS01 through SS08, were collected from a depth of approximately 0.5 feet bgs within and around the release area. Delineation boreholes were advanced via hand auger in the vicinity of soil sample locations SS02 and SS03 to confirm the vertical extent of the release. Borehole SS02 was advanced to a terminal depth of 3 feet bgs and borehole SS03 was advanced to a terminal depth of 2 feet bgs. Descrete soil samples were collected from each borehole at 1-foot intervals to the terminal depth of the borehole. All delineation soil samples were field screened 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 boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The release extent and delineation soil sample locations are depicted in Figure 2. Photographic documentation was collected during all Site activities and is provided on a Photographic Log in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

XTO Energy, Inc
Deferral Request
PLU 28 BS West Battery



Laboratory analytical results for delineation soil samples SS01 and SS03 indicated elevated COC concentrations but were in compliance with Site Closure Criteria. Laboratory analytical results for delineation soil sample SS02 indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for all other delineation soil samples collected indicated all COCs were in compliance with Closure Criteria and reclamation requirements, successfully defining the vertical and lateral extent of the release.

SURFACE SCRAPING ACTIVITIES & CONFIRMATION SOIL SAMPLING

On June 6 and June 20, 2025, surface scraping of visibly stained soil was conducted in the release area to the maximum extent practicable (MEP) in an approximate 1,950 square-foot area. Surface scraping activities were performed utilizing hand tools in the vicinity of production equipment and surface lines where access was limited with heavy equipment. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet of the release extent area. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples CS01 through CS10 were collected from a depth of 0.5 feet bgs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation soil sample CS07 indicated TPH-DRO+TPH-GRO concentrations exceeded Closure Criteria. Analytical results for all other confirmation soil samples collected indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines preventing excavation of impacted soil. The impacted soil is limited to the area between active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil sample SS02A collected at 1-foot bgs and laterally defined by delineation soil samples SS05 through SS07 and confirmation soil samples CS01 through CS03. The estimated area of remaining impacted soil immediately adjacent to active production equipment measures approximately 132 square feet and approximately 5 cubic yards, assuming a depth of 1-foot bgs. The requested area of deferral and the soil sample locations defining the area is presented on Figure 4.

XTO does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet and the impacted soil remaining in place is limited in areal and vertical extent.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2514734962 until final reclamation of the well pad or major construction, whichever comes first.

XTO Energy, Inc
Deferral Request
PLU 28 BS West Battery



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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Sherele Brooks".

Sherele Brooks
Staff Scientist

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

Benjamin J. Belill
Senior Geologist

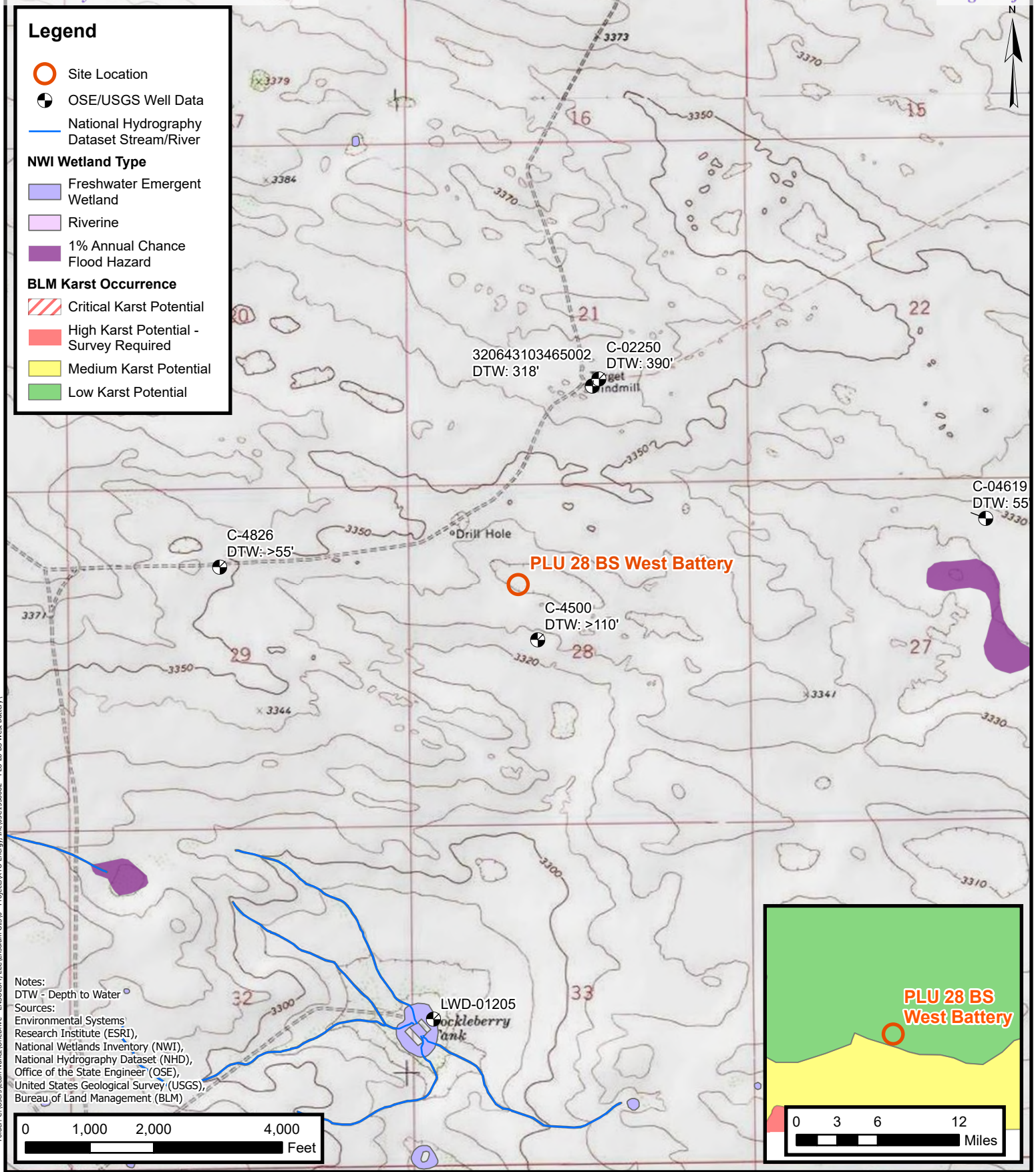
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



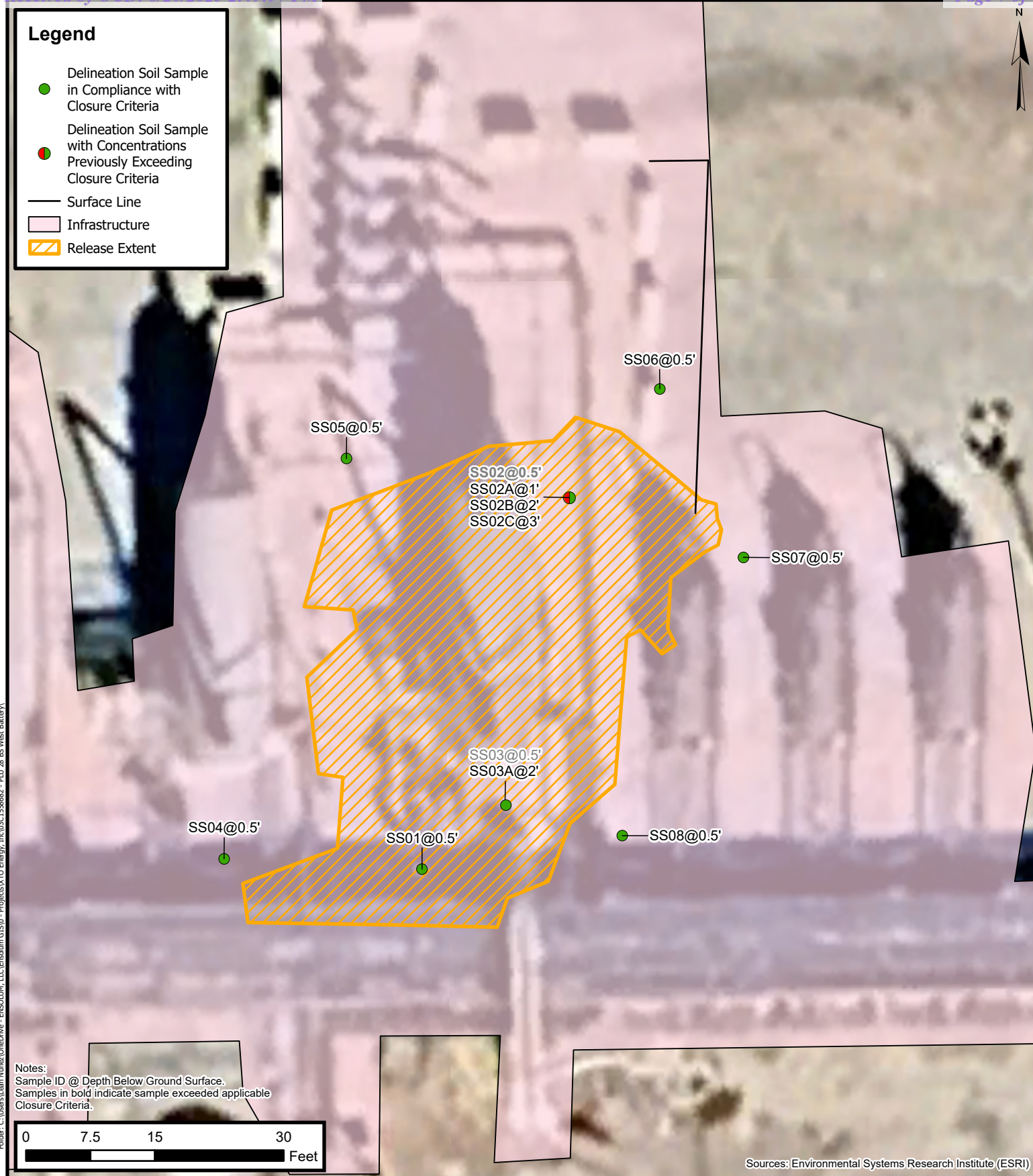
FIGURES



Site Receptor Map

XTO Energy, Inc
PLU 28 BS West Battery
Incident Number: nAPP2514734962
Unit F, Section 28, T 25S, R 31E
Eddy County, New Mexico

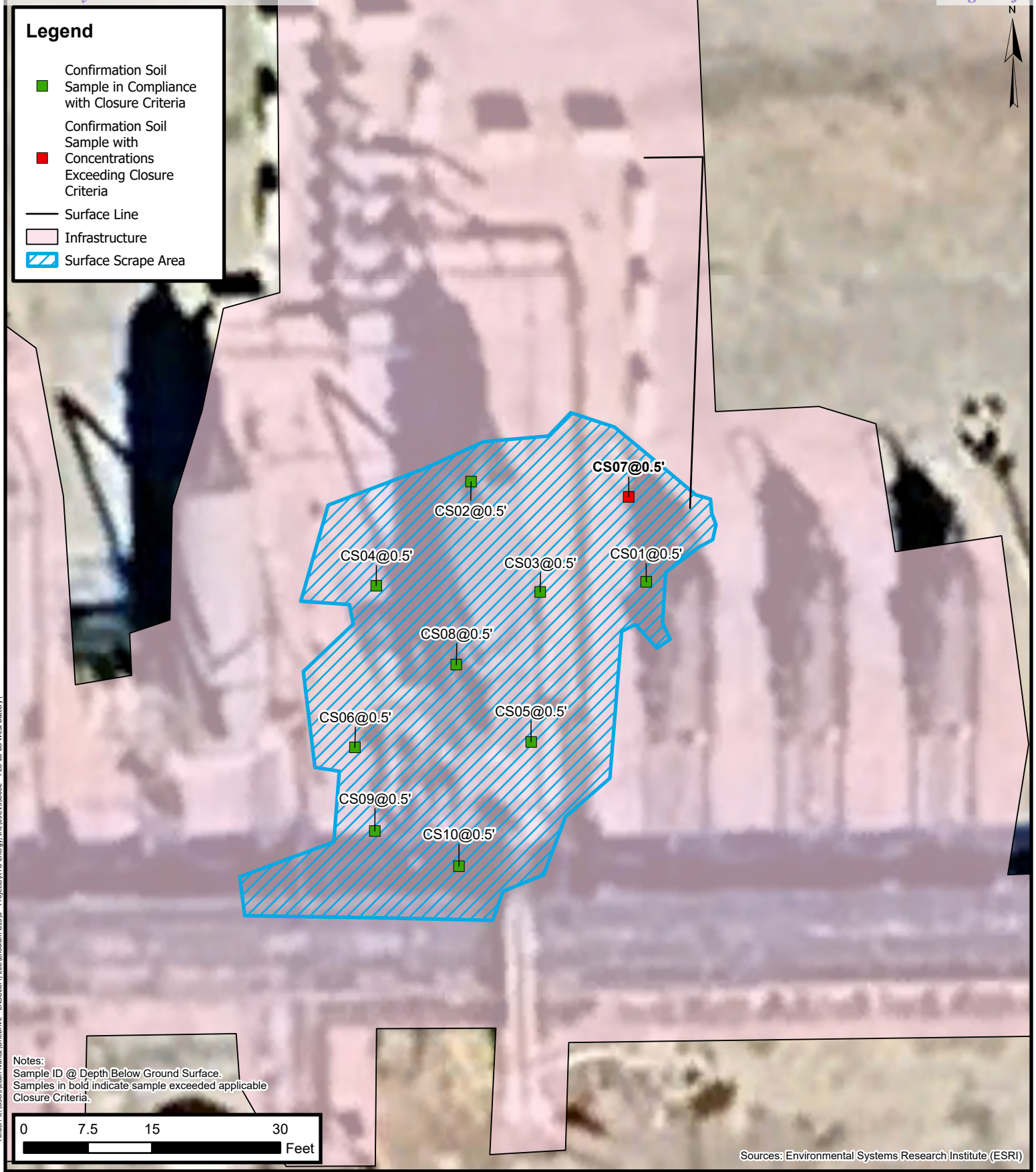
FIGURE
1



Delineation Soil Sample Locations

XTO Energy, Inc
PLU 28 BS West Battery
Incident Number: nAPP2514734962
Unit F, Section 28, T 25S, R 31E
Eddy County, New Mexico

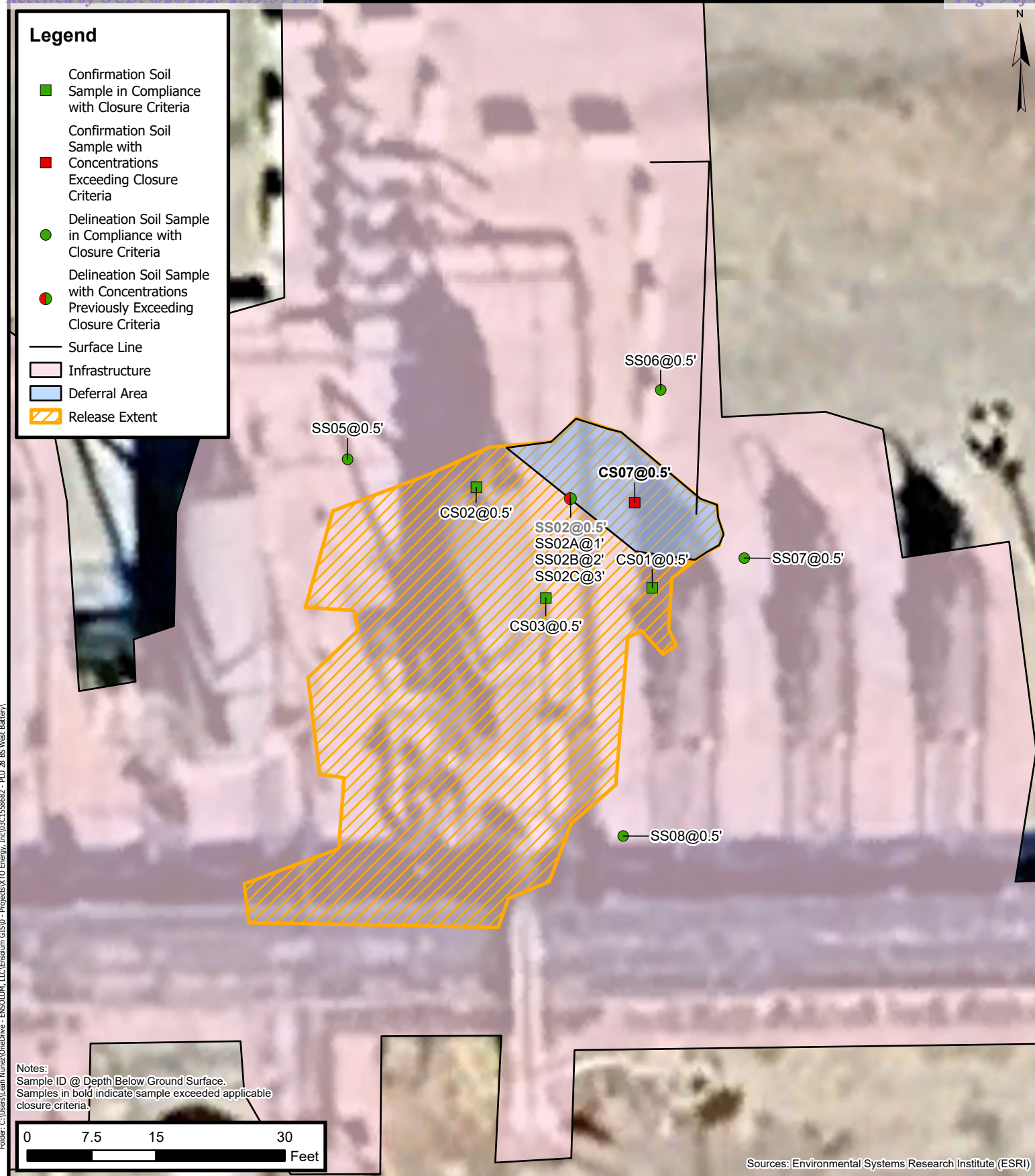
FIGURE
2



Confirmation Soil Sample Locations
XTO Energy, Inc
PLU 28 BS West Battery
Incident Number: nAPP2514734962
Unit F, Section 28, T 25S, R 31E
Eddy County, New Mexico

FIGURE
3





Area of Requested Deferral

XTO Energy, Inc
 PLU 28 BS West Battery
 Incident Number: nAPP2514734962
 Unit F, Section 28, T 25S, R 31E
 Eddy County, New Mexico

FIGURE

4





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 BS West Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/04/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
SS02	06/04/2025	0.5	<0.050	1.29	69.6	4,420	732	4,490	5,222	4,400
SS02A	06/05/2025	1	<0.050	<0.300	<10.0	27.8	<10.0	27.8	27.8	48.0
SS02B	06/05/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02C	06/05/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	06/04/2025	0.5	<0.050	<0.300	<10.0	10.0	11.9	10.0	21.9	6,480
SS03A	06/05/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS04	06/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS05	06/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS06	06/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS07	06/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS08	06/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Confirmation Soil Samples										
CS01	06/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,320
CS02	06/06/2025	0.5	<0.050	<0.300	<10.0	19.7	<10.0	19.7	19.7	1,650
CS03	06/06/2025	0.5	<0.050	<0.300	<10.0	314	46.2	314	360	3,960
CS04	06/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,540
CS05	06/06/2025	0.5	<0.050	<0.300	<10.0	405	62.2	405	467	3,640
CS06	06/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,080
CS07	06/20/2025	0.5	<0.050	<0.300	<10.0	1,850	272	1,850	2,122	5,760
CS08	06/20/2025	0.5	<0.050	<0.300	<10.0	86.2	32.1	86.2	118	8,000
CS09	06/20/2025	0.5	<0.050	<0.300	<10.0	93.1	24.9	93.1	118	8,400
CS10	06/20/2025	0.5	<0.050	<0.300	<10.0	16.8	<10.0	16.8	16.8	5,600

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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	
					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	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	05/05/2021 DATE

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/2017)


FILE NO. C-4500	POD NO. 1	TRN NO. 482534
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: SS02		Date: 06/05/2025	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: PLU 28 BS West Battery			
								Incident Number: nAPP2514734962			
								Job Number: 03C1558682			
Coordinates: 32.104390, -103.786086								Logged By: Josh Boxley		Method: Hand auger	
Hole Diameter: 3"								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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	6,227	75.4	N	SS02	0.5	0	CCHE	Silty sand w/caliche and large gravel. Indurated. Well graded. No stain, no odor.			
D	<157	73.6	N	SS02A	1	1					
D	<157	10.7	N	SS02B	2	2	SP	Poorly graded sand w/trace clay. Red brown. No stain, no odor.			
D	<157	4.7	N	SS02C	3	3					
						Total depth at 3 feet bgs					

								Sample Name: SS03		Date: 06/05/2025	
								Site Name: PLU 28 BS West Battery			
								Incident Number: nAPP2514734962			
								Job Number: 03C1558682			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Josh Boxley		Method: Hand auger	
Coordinates: 32.10429, -103.78611								Hole Diameter: 3"		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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)		USCS/Rock Symbol	Lithologic Descriptions		
						0					
D	10,853	9.0	N	SS03	0.5	0.5		CCHE	Silty sand w/caliche and medium gravel. Beige. Indurated. Well graded. No stain, no odor.		
D	3,226	2.3	N	SS03A	1	1					
D	325	2	N	SS03B	2	2		SP	Poorly graded sand w/trace clay. Red brown. No stain, no odor.		
						Total depth at 2 feet bgs.					



APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.

PLU 28 Big Sinks West Battery

nAPP2514734962



Photograph: 1 Date: 5/22/2025
Description: Site assessment activities, release area
View: North



Photograph: 2 Date: 5/22/2025
Description: Site assessment activities, release area
View: South



Photograph: 3 Date: 6/05/2025
Description: Delineation activities; near SS02
View: East



Photograph: 4 Date: 6/05/2025
Description: Delineation activities; near SS03
View: East

**Photographic Log**

XTO Energy, Inc.

PLU 28 Big Sinks West Battery

nAPP2514734962



Photograph: 5 Date: 6/06/2025
Description: Surface scrape; near CS05
View: North



Photograph: 6 Date: 6/20/2025
Description: Confirmation sampling; near CS07
View: East



Photograph: 7 Date: 6/20/2025
Description: Confirmation sampling; near CS04
View: South



Photograph: 8 Date: 6/20/2025
Description: Confirmation sampling; near CS03
View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 06, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2025
Reported: 06/06/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 0.5' (H253359-01)

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	06/05/2025	ND	1.96	98.2	2.00	1.61	
Toluene*	<0.050	0.050	06/05/2025	ND	2.15	107	2.00	1.55	
Ethylbenzene*	<0.050	0.050	06/05/2025	ND	2.02	101	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/05/2025	ND	6.08	101	6.00	0.786	
Total BTEx	<0.300	0.300	06/05/2025	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	6000	16.0	06/06/2025	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	06/05/2025	ND	182	91.1	200	0.810	
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	195	97.4	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/05/2025
Reported: 06/06/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.5' (H253359-02)

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	06/05/2025	ND	1.96	98.2	2.00	1.61		
Toluene*	<0.050	0.050	06/05/2025	ND	2.15	107	2.00	1.55		
Ethylbenzene*	<0.050	0.050	06/05/2025	ND	2.02	101	2.00	1.14	GC-NC	
Total Xylenes*	1.29	0.150	06/05/2025	ND	6.08	101	6.00	0.786		
Total BTEX	1.29	0.300	06/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	06/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	69.6	10.0	06/05/2025	ND	182	91.1	200	0.810	
DRO >C10-C28*	4420	10.0	06/05/2025	ND	195	97.4	200	2.39	
EXT DRO >C28-C36	732	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane 127 % 44.4-145

Surrogate: 1-Chlorooctadecane 258 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/05/2025
Reported: 06/06/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5' (H253359-03)

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	06/05/2025	ND	1.96	98.2	2.00	1.61		
Toluene*	<0.050	0.050	06/05/2025	ND	2.15	107	2.00	1.55		
Ethylbenzene*	<0.050	0.050	06/05/2025	ND	2.02	101	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/05/2025	ND	6.08	101	6.00	0.786		
Total BTEx	<0.300	0.300	06/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6480	16.0	06/06/2025	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	06/05/2025	ND	182	91.1	200	0.810	
DRO >C10-C28*	10.0	10.0	06/05/2025	ND	195	97.4	200	2.39	
EXT DRO >C28-C36	11.9	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

June 09, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/06/25 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 04 0.5' (H253407-01)

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	06/06/2025	ND	1.93	96.4	2.00	2.82	
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 05 0.5' (H253407-02)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEx	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	224	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 06 0.5' (H253407-03)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEx	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	240	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 46.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 45.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 07 0.5' (H253407-04)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEx	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	240	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 08 0.5' (H253407-05)

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	06/06/2025	ND	1.93	96.4	2.00	2.82	
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30	
Total BTX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 03A 2' (H253407-06)

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	06/06/2025	ND	1.93	96.4	2.00	2.82	
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/09/2025	ND	432	108	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	06/07/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/07/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/07/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 02A 1' (H253407-07)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEX	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2025	ND	432	108	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	06/07/2025	ND	208	104	200	0.333	
DRO >C10-C28*	27.8	10.0	06/07/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/07/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 02B 2' (H253407-08)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEX	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2025	ND	432	108	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	06/07/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/07/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/07/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/05/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 02C 3' (H253407-09)

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	06/06/2025	ND	1.93	96.4	2.00	2.82		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.5	2.00	3.14		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.97	98.5	2.00	3.42		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	5.82	97.0	6.00	3.30		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2025	ND	432	108	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	06/07/2025	ND	208	104	200	0.333	
DRO >C10-C28*	<10.0	10.0	06/07/2025	ND	210	105	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	06/07/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:								
Project Manager: Tracy Hallard		Company: XTO Energy Inc								
Address: 3122 National Parks Hwy		Attn: Cotton Brewer Dale Whidall								
City: Carlsbad		Address: 3104 E Green St								
State: NM Zip: 88220		City: Carlsbad								
Phone #: 575 437 3906		State: NM Zip: 88220								
Project #: 05C1558682		Project Owner: XTO								
Project Name: PLV 26 B5 West Battery - Spill		Phone #:								
Project Location: 32. 004310, -103.786130		Fax #:								
Sample Name: Joshua Boyley		PRESERV		SAMPLING						
FOR LAB USE ONLY										
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	Chlorides	TPH	BTEX
1	55001	0.5	G	1	GROUNDWATER	6.5.25	1040	X	X	X
2	55005	1	G	1	WASTEWATER	6.5.25	1050	X	X	X
3	55006	1	G	1	SOIL	6.5.25	1055	X	X	X
4	55007	0.5	G	1	OIL	6.5.25	1120	X	X	X
5	55008	2	G	1	SLUDGE	6.5.25	1125	X	X	X
6	55009	1	G	1	OTHER :	6.5.25	1005	X	X	X
7	5502A	2	G	1	ACID/BASE:	6.5.25	1058	X	X	X
8	5502B	2	G	1	ICE / COOL	6.5.25	1148	X	X	X
9	5502C	3	G	1	OTHER :	6.5.25	1200	X	X	X
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Relinquished By:		Date: 10-03-25		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		
Relinquished By:		Date: 10-03-25		Received By: [Signature]		All Results are emailed. Please provide Email address:		Email: [Address]		
Relinquished By:		Date: 10-03-25		Received By: [Signature]		REMARKS: APP 2511734962				
Relinquished By:		Date: 10-03-25		Received By: [Signature]		Incident: WAPP 2511734962				
Relinquished By:		Date: 10-03-25		Received By: [Signature]		Cost Center: 2191861001				
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)				
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID: #142				
				Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>				
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C				



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

June 09, 2025

TRACY HILLARD

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 06/06/25 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	SPILL - 03C1558682	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104310-103.786130		

Sample ID: CS 01 0.5 (H253406-01)

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	06/06/2025	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	5320	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	207	103	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 64.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	SPILL - 03C1558682	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104310-103.786130		

Sample ID: CS 02 0.5 (H253406-02)

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	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	1650	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	207	103	200	1.54	
DRO >C10-C28*	19.7	10.0	06/06/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	SPILL - 03C1558682	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104310-103.786130		

Sample ID: CS 03 0.5 (H253406-03)

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	06/06/2025	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96	
Total BTEX	<0.300	0.300	06/06/2025	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	3960	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	207	103	200	1.54	
DRO >C10-C28*	314	10.0	06/06/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	46.2	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 49.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	SPILL - 03C1558682	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104310-103.786130		

Sample ID: CS 04 0.5 (H253406-04)

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	06/06/2025	ND	2.24	112	2.00	2.85		
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	1540	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	207	103	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 72.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2025
Reported: 06/09/2025
Project Name: PLU 28 BIG SINKS WEST BATTERY
Project Number: SPILL - 03C1558682
Project Location: XTO 32.104310-103.786130

Sampling Date: 06/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 05 0.5 (H253406-05)

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	06/06/2025	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61	GC-NC
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96	
Total BTX	<0.300	0.300	06/06/2025	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	3640	16.0	06/09/2025	ND	432	108	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	06/06/2025	ND	207	103	200	1.54	
DRO >C10-C28*	405	10.0	06/06/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	62.2	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	SPILL - 03C1558682	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104310-103.786130		

Sample ID: CS 06 0.5 (H253406-06)

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	06/06/2025	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	1.98	98.8	2.00	5.61	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.03	101	6.00	4.96	
Total BTEX	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/09/2025	ND	432	108	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	06/07/2025	ND	207	103	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/07/2025	ND	210	105	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	06/07/2025	ND					

Surrogate: 1-Chlorooctane 46.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 45.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Tracy Hillard

P.O. #:

Address: 3122 National Parks Hwy

Company: XTO Energy Inc

City: Carlsbad

State: NM Zip: 88220

Attn: ~~Bottom-Brewer~~ Dale Wadell

Phone #: 575 437 3906

Fax #:

Address: 3104 E Green St

Project #: 0361556682

Project Owner: XTO

City: Carlsbad

Project Name: PLV 26 BS West Battery - Spill

State: NM Zip: 88220

Project Location: 32. 104310, -103.786130

Phone #:

Sample Name: Joshua Boxley

Fax #:

FOR LAB USE ONLY

Lab I.D.

Depth (feet)

4953400

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

TPH

BTEX

CS01
CS02
CS03
CS04
CS05
CS06

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Relinquished By:

Date: 6/6/25
Time: 1441

Received By:

Date: 6/6/25
Time: 1441

Received By:

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

All Results are emailed. Please provide Email address: TH:llard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 6/6/25
Time: 1441

Received By:

Date: 6/6/25
Time: 1441

Received By:

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

REMARKS: WAP 2514734962
Incident: WAP 2514734962
Cost Center: 219161001 672M: 49605000

Delivered By: (Circle One)

Observed Temp.: °C
Corrected Temp.: °C

Sample Condition
Cool Intact
☐ Yes ☐ No

Checked By: (Initials)

Turnaround Time: 24 hrs

Thermometer ID: #140

Standard (Rush) ☒

Bacteria (only) ☐

Cool Intact ☐

Observed Temp.: °C

Corrected Temp.: °C

Sampler - UPS - Bus - Other:

Observed Temp.: °C
Corrected Temp.: °C

Sample Condition
Cool Intact
☐ Yes ☐ No

Checked By: (Initials)

Turnaround Time: 24 hrs

Thermometer ID: #140

Standard (Rush) ☒

Bacteria (only) ☐

Cool Intact ☐

Observed Temp.: °C

Corrected Temp.: °C



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

June 25, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/23/25 12:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/23/2025
Reported: 06/25/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682 - SPILL
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 07 0.5 (H253743-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2025	ND	1.88	93.8	2.00	5.89	
Toluene*	<0.050	0.050	06/24/2025	ND	1.96	97.8	2.00	5.84	
Ethylbenzene*	<0.050	0.050	06/24/2025	ND	1.95	97.4	2.00	5.68	
Total Xylenes*	<0.150	0.150	06/24/2025	ND	5.76	96.0	6.00	5.86	
Total BTX	<0.300	0.300	06/24/2025	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	5760	16.0	06/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	228	114	200	4.24	
DRO >C10-C28*	1850	10.0	06/24/2025	ND	216	108	200	6.85	
EXT DRO >C28-C36	272	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 180 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/23/2025
Reported: 06/25/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682 - SPILL
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 08 0.5 (H253743-02)

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	06/24/2025	ND	1.88	93.8	2.00	5.89		
Toluene*	<0.050	0.050	06/24/2025	ND	1.96	97.8	2.00	5.84		
Ethylbenzene*	<0.050	0.050	06/24/2025	ND	1.95	97.4	2.00	5.68		
Total Xylenes*	<0.150	0.150	06/24/2025	ND	5.76	96.0	6.00	5.86		
Total BTEX	<0.300	0.300	06/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	8000	16.0	06/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	228	114	200	4.24	
DRO >C10-C28*	86.2	10.0	06/24/2025	ND	216	108	200	6.85	
EXT DRO >C28-C36	32.1	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/23/2025
Reported: 06/25/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682 - SPILL
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 09 0.5 (H253743-03)

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	06/24/2025	ND	1.88	93.8	2.00	5.89		
Toluene*	<0.050	0.050	06/24/2025	ND	1.96	97.8	2.00	5.84		
Ethylbenzene*	<0.050	0.050	06/24/2025	ND	1.95	97.4	2.00	5.68		
Total Xylenes*	<0.150	0.150	06/24/2025	ND	5.76	96.0	6.00	5.86		
Total BTEX	<0.300	0.300	06/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	8400	16.0	06/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	228	114	200	4.24	
DRO >C10-C28*	93.1	10.0	06/24/2025	ND	216	108	200	6.85	
EXT DRO >C28-C36	24.9	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/23/2025
Reported: 06/25/2025
Project Name: PLU 28 BS WEST BATTERY
Project Number: 03C1558682 - SPILL
Project Location: XTO 32.104310,-103.786130

Sampling Date: 06/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 10 0.5 (H253743-04)

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	06/24/2025	ND	1.88	93.8	2.00	5.89		
Toluene*	<0.050	0.050	06/24/2025	ND	1.96	97.8	2.00	5.84		
Ethylbenzene*	<0.050	0.050	06/24/2025	ND	1.95	97.4	2.00	5.68		
Total Xylenes*	<0.150	0.150	06/24/2025	ND	5.76	96.0	6.00	5.86		
Total BTEX	<0.300	0.300	06/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	5600	16.0	06/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	228	114	200	4.24	
DRO >C10-C28*	16.8	10.0	06/24/2025	ND	216	108	200	6.85	
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Tracy Hillard				P.O. #:							
Address: 3122 National Parks Hwy				Company: XTO Energy Inc							
City: Carlsbad				Attn: Cotton Brown Dale Waddell							
State: NM Zip: 88220				Address: 3104 E Green St							
Phone #: 575 437 3906 Fax #:				City: Carlsbad							
Project #: 0301558682 Project Owner: XTO				State: NM Zip: 88220							
Project Name: PLV 26 BS West Battery - Spill				Phone #:							
Project Location: 32.14310, -103.786130				Fax #:							
Sampler Name: Joshua Boxley											
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	Chlorides	TPH	BTEX		
1	LSO7	0.5	C	1	6.20.25	1020	X	X	X		
2	CS06	1	C	1	6.20.25	1025	X	X	X		
3	CS09	0.5	C	1	6.20.25	1030	X	X	X		
4	CS10	0.5	C	1	6.20.25	1035	X	X	X		
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Relinquished By: [Signature]				Date: 11.23.25				Received By: [Signature]			
Relinquished By: [Signature]				Date: 12.18				Received By: [Signature]			
Delivered By: (Circle One)				Observed Temp.: 22.1				Sample Condition			
Sampler - UPS - Bus - Other:				Corrected Temp.: 22.1				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
								CHECKED BY: [Signature]			
FORM-006 R 3.2 10/07/21				Cardinal cannot accept verbal changes. Please email changes to celey.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 497862

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2514734962
Incident Name	NAPP2514734962 PLU 28 BS WEST BATTERY @ F-28-25S-31E
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 28 BS West Battery
Date Release Discovered	05/22/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 11 BBL Recovered: 7 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 497862

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	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: 08/20/2025
--	--

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QUESTIONS, Page 3

Action 497862

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2122
GRO+DRO (EPA SW-846 Method 8015M)	1850
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	06/06/2025
On what date will (or did) the final sampling or liner inspection occur	06/20/2025
On what date will (or was) the remediation complete(d)	06/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	1950
What is the estimated volume (in cubic yards) that will be reclaimed	140
What is the estimated surface area (in square feet) that will be remediated	1950
What is the estimated volume (in cubic yards) that will be remediated	72
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 497862

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/20/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 497862

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	separators, pipelines, cement barriers, undermining pipe supports
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	132
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	5
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	fAPP2126356070 PLU 28 BIG SINKS WEST BTY
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/20/2025

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QUESTIONS, Page 6

Action 497862

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	473640
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2025
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	6000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 497862

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 497862
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number: NAPP2514734962) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is limited to the area between active production equipment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	9/24/2025