



November 14, 2025

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

Re: Remediation Work Plan
PLU Ross Ranch 33-25-30 USA Battery
Incident Number nAPP2505230590
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Remediation Work Plan (Work Plan)* to document Site assessment, excavation, and soil sampling activities at the PLU Ross Ranch 33-25-30 USA Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to assess for the presence or absence of impacts to soil following a release crude oil onto the facility pad. The following *Work Plan* describes excavation and soil sampling activities completed and proposes additional excavation to strictest Table I Closure Criteria.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 33, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.093372°, -103.892218°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On February 20, 2025, freezing of a flare surface flowline resulted in the release of approximately 6 barrels (bbls) of crude oil onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 2 bbls of crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial Release C-141 Application (C-141) on February 21, 2025. The release was assigned Incident Number nAPP2505230590.

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 greater than 100 feet below ground surface (bgs) based on a New Mexico Office of the State Engineer (OSE) permitted well drilled for exploration. On January 17, 2015, OSE well C-3832 (originally C-3782) was drilled 268 feet north of the Site utilizing mud rotary drilling

methods. Exploratory well C-3832 was drilled to a total depth of 805 feet bgs with groundwater first encountered at 260 feet bgs. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 3,403 feet north 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 less 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 stable geology (low potential karst designation area).

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between February 27, 2025, and May 13, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release occurred on pad and near an active flare and production equipment. Twelve delineation soil samples (SS01 through SS12) were collected within and around the release extent from a depth of approximately 0.5 feet bgs. Delineation pothole PH01 was advanced within the earthen berm containment via hand auger to a terminal depth of 2 feet bgs to assess the vertical extent of the release. Delineation soil samples were collected from the pothole at depths ranging from 0.5 feet to 2 feet bgs. The 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. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in a Photographic Log in Appendix B. Field screening results and observations for the pothole were logged on a lithologic soil sampling log, which is included 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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

Laboratory analytical results for delineation soil samples, SS01 through SS05, SS10 through SS12, and PH01 indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil samples SS06 through SS09 indicated TPH and/or chloride concentrations exceeded the Closure Criteria.

SURFACE SCRAPING ACTIVITIES

Following delineation activities, surface scraping of visibly stained soil was conducted in the release area utilizing heavy equipment. Once surface scraping activities were completed, 5-point composite soil samples were collected every 200 square feet from the release extent area. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples CS01 through CS34 were collected from within the release area from a depth of 0.5 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The confirmation soil sample locations are depicted on Figure 3.

Laboratory analytical results for confirmation soil samples CS04, CS14, CS15, CS26, and CS30 through CS32, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for confirmation soil samples CS01 through CS03, CS05 through CS13, CS16 through CS25, CS27 through CS29, CS33 and CS34, indicated TPH and/or chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area and laboratory analytical results, additional remediation activities were warranted.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Between March 27 and April 14, 2025, Ensolum personnel returned to the Site to oversee excavation activities. Excavation via heavy equipment was conducted to the maximum extent practicable (MEP) due to the proximity of an active flare and production equipment. XTO safety policy prohibits soil disturbing activities within 2 feet of active production equipment and pipelines. Once impacted soil was removed, 5-point composite soil samples were collected every 200 square feet from the floor and the sidewall of the excavation extent. Excavation floor soil samples FS01 through FS28 were collected from the floor of the excavation at depths ranging from 0.5 feet bgs to 1-foot bgs. Excavation sidewall soil samples SW01 and SW02 were collected from the sidewall of the excavation at depths ranging from the ground surface to 1-foot bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above.

The excavation and confirmation soil sample locations are depicted on Figure 3.

The excavation extent completed to date measured approximately 5,600 square feet and approximately 155 cubic yards of impacted soil were removed. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility located in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation soil samples FS05, FS09, FS10, FS13, FS15, FS22, FS26 through FS28, and sidewall soil samples SW01 and SW02, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation soil samples FS01 through FS04, FS06 through FS08, FS11, FS12, FS14, FS16 through FS21, and FS23 through FS25, indicated TPH and/or chloride concentrations exceeded Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

XTO Energy, Inc.
Remediation Work Plan
PLU Ross Ranch 33-25-30 USA Battery



PROPOSED REMEDIATION WORK PLAN

The delineation and confirmation soil sampling results indicate soil containing elevated TPH and/or chloride concentrations exist on pad across an approximate 5,576 square foot area and extends to depths of 1-foot bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of the remaining impacted soil to an estimated depth of 1-foot bgs. Excavation will proceed until confirmation soil samples confirm all COC concentrations are compliant with the Closure Criteria.
- Confirmation soil samples will be collected at a sampling frequency representing no more than 200 square feet.
- An estimated 207 cubic yards of impacted soil will be excavated and disposed of at a New Mexico approved disposal facility.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.

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

Sincerely,
Ensolum, LLC

Jaden Engels
Associate Geologist

Tacoma Morrissey
Associate Principal

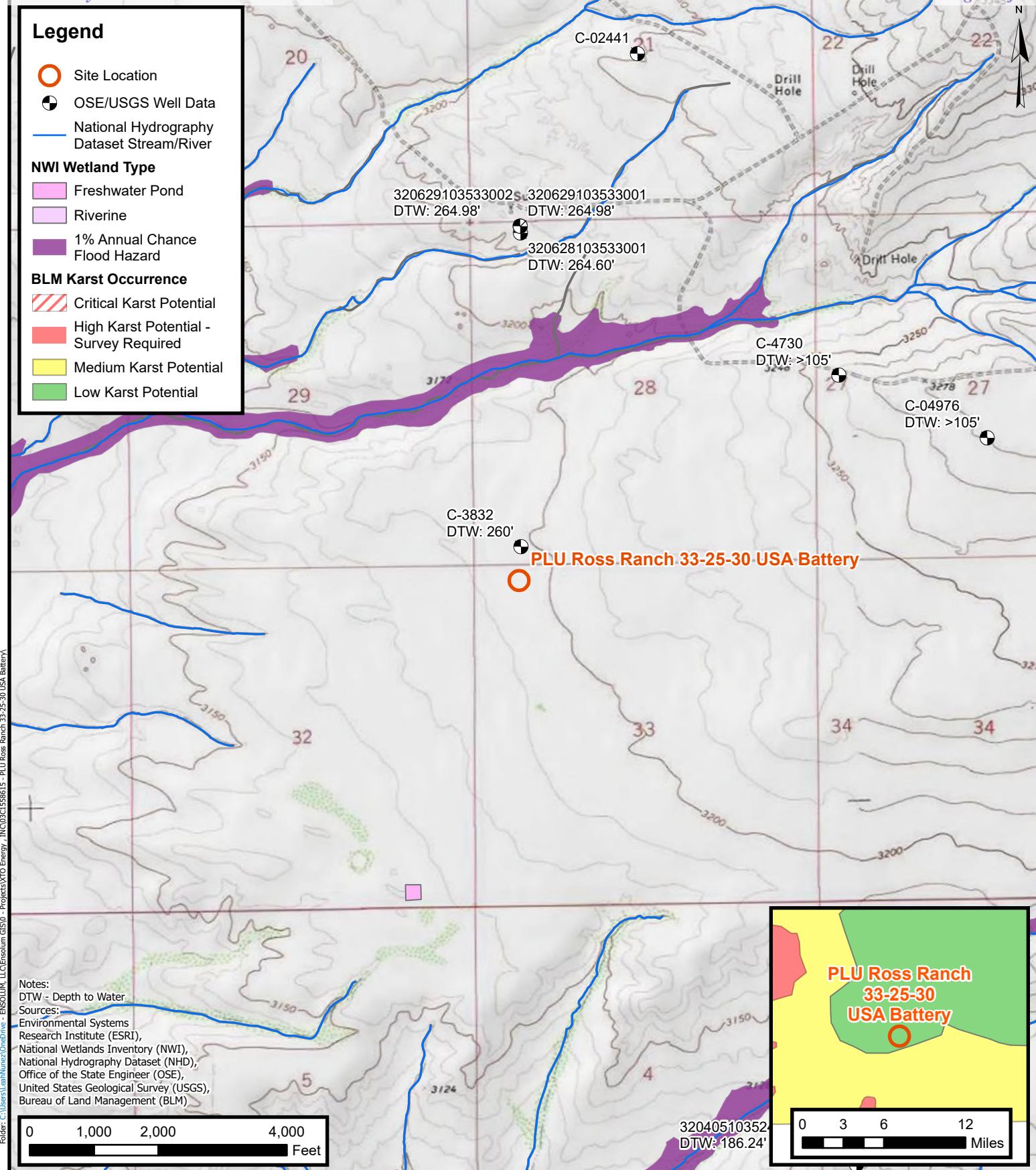
cc: Richard Kotzur, XTO
 Robert Woodall, XTO
 Bureau of Land Management

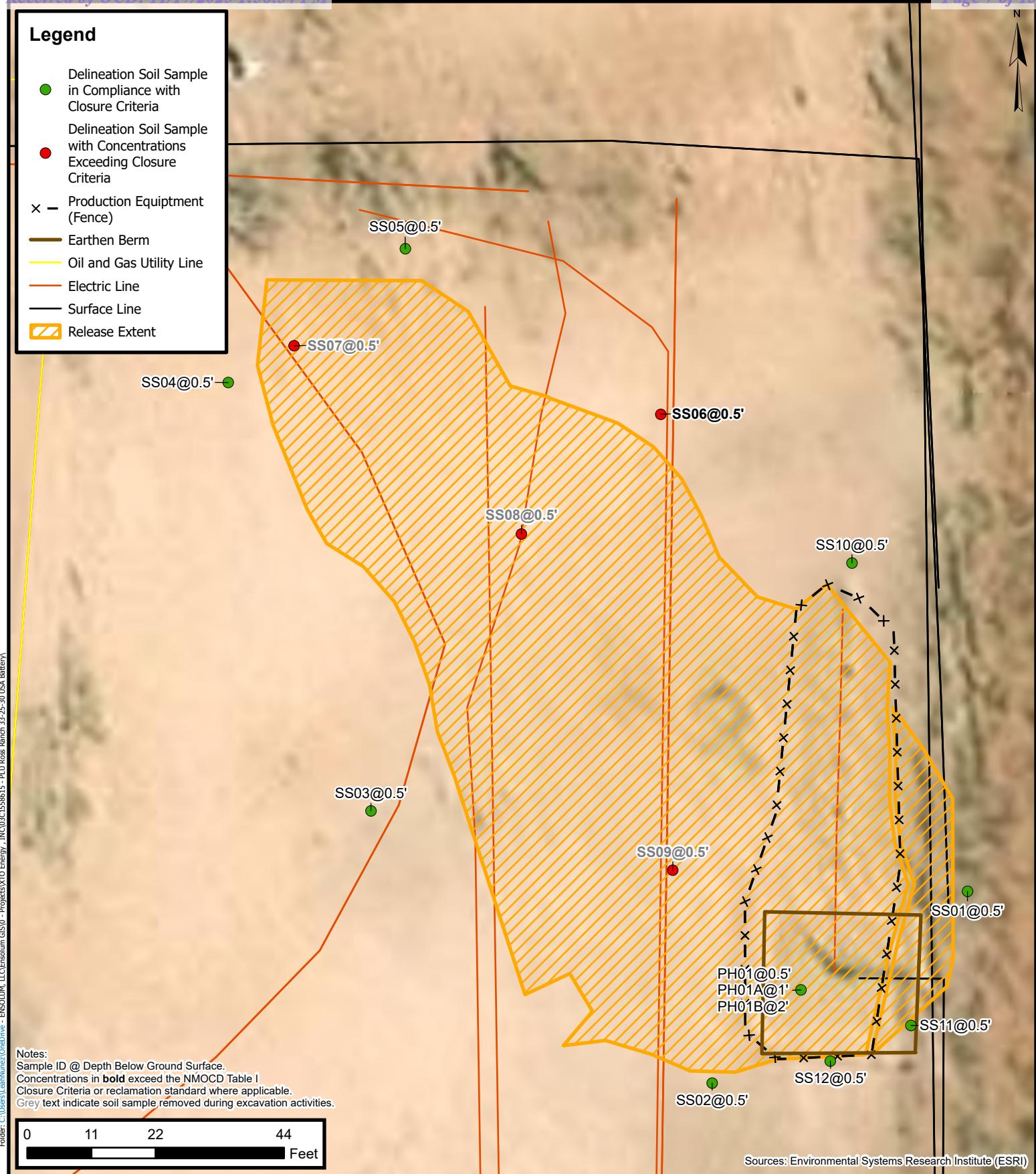
Appendices:

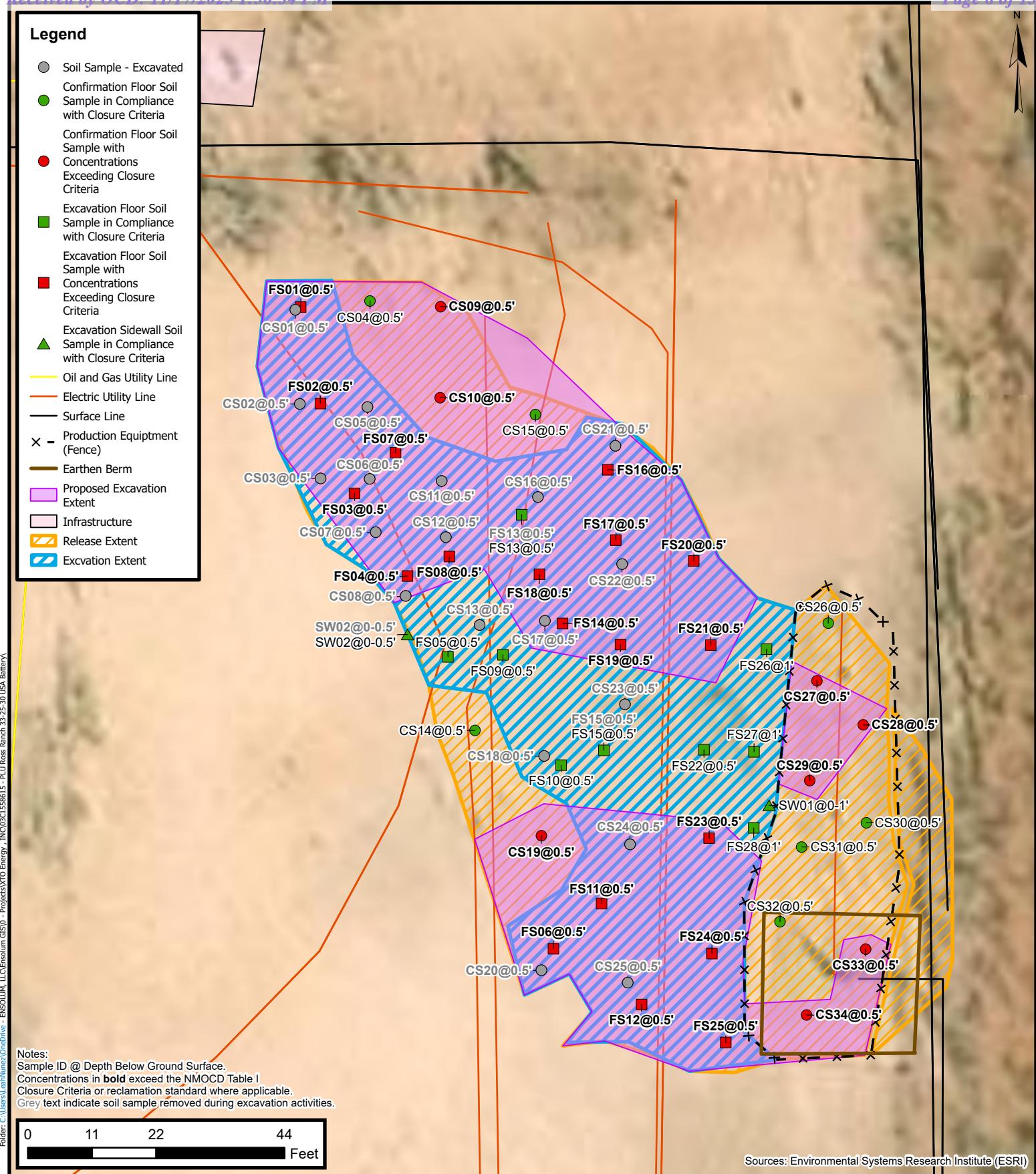
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody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



FIGURES









TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Ross Ranch 33-25-30 USA Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	02/27/2025	0.5	<0.050	<0.300	<10.0	58.2	<10.0	58.2	58.2	112
SS02	02/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS03	02/27/2025	0.5	<0.050	<0.300	<10.0	82.5	<10.0	82.5	82.5	160
SS04	02/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS05	02/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS06	02/27/2025	0.5	<0.050	<0.300	<10.0	190	34.2	190	224	272
SS07	02/27/2025	0.5	<0.050	<0.300	<10.0	314	501	314	815	320
SS08	02/27/2025	0.5	<0.050	22.5	365	2,490	335	2,855	3,190	1,500
SS09	02/27/2025	0.5	0.847	130	875	2,990	389	3,865	4,254	1,500
SS10	03/10/2025	0.5	<0.050	<0.300	<10.0	34.4	<10.0	34.4	34.4	144
SS11	05/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	05/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH01	04/14/2025	0.5	<0.050	<0.300	75.0	<10.0	<10.0	75.0	75.0	144
PH01A	04/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH01B	04/14/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Confirmation Soil Samples										
CS01	03/10/2025	0.5	<0.050	<0.300	<10.0	2,970	550	2,970	3,520	1,920
CS02	03/10/2025	0.5	<0.050	<0.300	<10.0	3,780	788	3,780	4,568	2,600
CS03	03/10/2025	0.5	<0.050	<0.300	<10.0	2,020	418	2,020	2,438	1,540
CS04	03/10/2025	0.5	<0.050	<0.300	<10.0	77.0	22.6	77.0	99.6	96.0
CS05	03/10/2025	0.5	<0.050	0.824	68.7	14,400	1,090	14,469	15,559	2,440
CS06	03/10/2025	0.5	<0.050	<0.300	<10.0	3,220	527	3,220	3,747	4,800
CS07	03/10/2025	0.5	<0.050	<0.300	<10.0	4,190	812	4,190	5,002	4,080
CS08	03/10/2025	0.5	<0.050	<0.300	<10.0	1,790	370	1,790	2,160	5,730
CS09	03/10/2025	0.5	<0.050	<0.300	<10.0	450	94.5	450	545	176
CS10	03/10/2025	0.5	<0.050	<0.300	<10.0	201	34.3	201	235	992
CS11	03/10/2025	0.5	<0.050	4.04	307	7,730	1,180	8,037	9,217	20,600
CS12	03/10/2025	0.5	<0.050	<0.300	29.9	997	160	1,027	1,187	1,730
CS13	03/10/2025	0.5	<0.050	4.17	67.9	2,540	357	2,608	2,965	1,490
CS14	03/10/2025	0.5	<0.050	<0.300	<10.0	41.9	19.3	41.9	61.2	96.0
CS15	03/10/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0



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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS16	03/10/2025	0.5	<0.050	40.5	672	9,410	4,010	10,082	11,092	5,600
CS17	03/10/2025	0.5	<0.050	55.9	1,110	9,630	4,380	10,740	12,120	4,800
CS18	03/10/2025	0.5	<0.050	75.5	1,600	7,940	4,020	9,540	10,560	4,160
CS19	03/10/2025	0.5	<0.050	0.335	<10.0	480	82.0	480	562	8,240
CS20	03/10/2025	0.5	<0.050	1.12	105	8,450	4,260	8,555	9,815	10,000
CS21	03/10/2025	0.5	<0.050	<0.300	<10.0	4,170	825	4,170	4,995	3,120
CS22	03/10/2025	0.5	<0.050	4.50	540	12,100	4,790	12,640	14,430	4,160
CS23	03/10/2025	0.5	<0.050	1.88	44.7	2,330	364	2,375	2,739	5,120
CS24	03/10/2025	0.5	<0.050	74.6	1,680	15,200	2,170	16,880	19,050	7,730
CS25	03/10/2025	0.5	<0.050	7.53	327	8,750	4,290	9,077	10,367	14,200
CS26	03/27/2025	0.5	<0.050	<0.300	<10.0	57.9	20.9	57.9	78.8	176
CS27	03/27/2025	0.5	<0.050	<0.300	<10.0	125	51.6	125	177	208
CS28	03/27/2025	0.5	<0.050	<0.300	<10.0	120	36.7	120	157	400
CS29	03/27/2025	0.5	<0.050	<0.300	<10.0	97.4	18.2	97.4	116	192
CS30	03/27/2025	0.5	<0.050	<0.300	<10.0	21.1	<10.0	21.1	21.1	112
CS31	03/27/2025	0.5	<0.050	<0.300	<10.0	36.2	<10.0	36.2	36.2	176
CS32	03/27/2025	0.5	<0.050	<0.300	<10.0	22.9	<10.0	22.9	22.9	112
CS33	03/27/2025	0.5	<0.050	0.866	130	2,730	375	2,860	3,235	1,600
CS34	03/27/2025	0.5	<0.050	2.27	61.0	1,570	269	1,631	1,900	1,180



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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Soil Samples										
FS01	03/27/2025	0.5	<0.050	<0.300	<10.0	153	17.8	153	171	1,170
FS02	03/27/2025	0.5	<0.050	<0.300	<10.0	19.6	<10.0	19.6	19.6	1,760
FS03	03/27/2025	0.5	<0.050	<0.300	<10.0	234	17.3	234	251	2,160
FS04	03/27/2025	0.5	<0.050	<0.300	<10.0	12.1	<10.0	12.1	12.1	816
FS05	03/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS06	03/27/2025	0.5	<0.050	<0.300	<10.0	197	24.6	197	222	1,300
FS07	03/27/2025	0.5	<0.050	<0.300	<10.0	223	24.3	223	247	6,000
FS08	03/27/2025	0.5	<0.050	<0.300	<10.0	11.2	<10.0	11.2	11.2	4,480
FS09	03/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS10	03/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS11	03/27/2025	0.5	<0.050	<0.300	<10.0	924	203	924	1,127	960
FS12	03/27/2025	0.5	<0.050	<0.300	<10.0	416	64.8	416	481	768
FS13	03/27/2025	0.5	<0.050	<0.300	<10.0	1,860	253	1,860	2,113	2,600
FS13	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS14	03/27/2025	0.5	<0.050	<0.300	<10.0	280	33.5	280	314	1,390
FS15	03/27/2025	0.5	<0.050	<0.300	<10.0	1,540	210	1,540	1,750	2,360
FS15	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS16	03/27/2025	0.5	<0.050	<0.300	<10.0	237	35.1	237	272	352
FS17	03/27/2025	0.5	<0.050	<0.300	<10.0	111	13.4	111	124	656
FS18	03/27/2025	0.5	<0.050	<0.300	<10.0	32.1	<10.0	32.1	32.1	1,570
FS19	03/27/2025	0.5	<0.050	<0.300	<10.0	14.3	<10.0	14.3	14.3	4,800
FS20	03/27/2025	0.5	<0.050	<0.300	<10.0	226	11.7	226	238	5,840
FS21	03/27/2025	0.5	<0.050	<0.300	<10.0	29.3	<10.0	29.3	29.3	2,160
FS22	03/27/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS23	03/27/2025	0.5	<0.050	<0.300	<10.0	40.4	<10.0	40.4	40.4	4,240
FS24	03/27/2025	0.5	<0.050	<0.300	<10.0	239	19.5	239	259	5,680
FS25	03/27/2025	0.5	<0.050	<0.300	<10.0	14.8	<10.0	14.8	14.8	896
FS26	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS27	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS28	03/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192



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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW01	03/27/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
SW02	03/27/2025	0-0.5	<0.050	<0.300	<10.0	19.3	<10.0	19.3	19.3	1,090
SW02	04/14/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320

Notes:

bgs: below ground surface

GRO: Gasoline Range Organics

mg/kg: milligrams per kilogram

DRO: Diesel Range Organics

NMOCD: New Mexico Oil Conservation Division

ORO: Oil Range Organics

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

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

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 NUMBER (WELL NUMBER) POD-1 <i>Renumbered C-3832-POD 2</i>			OSE FILE NUMBER(S) C 3782 <i>(exploratory) Renumbered C-3832</i>			
	WELL OWNER NAME(S) BOPCO, L.P.			PHONE (OPTIONAL) (817) 390-8662			
	WELL OWNER MAILING ADDRESS 201 N Main St Suite 2900			CITY Fort Worth STATE TX ZIP 76102			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	05	MINUTES 40.1	SECONDS N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	53	32.2	W	
	* DATUM REQUIRED: WGS 84						
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW1/4SE1/4SW1/4SW1/4 of Section 28, Township 25 South, Range 30 East, in the NE corner of a well pad.						
	LICENSE NUMBER 331		NAME OF LICENSED DRILLER Joel H. Stewart			NAME OF WELL DRILLING COMPANY SBQ Drilling, LLC	
	DRILLING STARTED 01-16-15	DRILLING ENDED 01-17-15	DEPTH OF COMPLETED WELL (FT) 805	BORE HOLE DEPTH (FT) ±805	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 277		
DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
DEPTH (feet bg)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
FROM	TO						
0	270	14.75	AS1M A53B	Welded	8.625	0.322	1/2
270	805	14.75	304 Stainless Steel	Welded	8.625	0.25	17/16
0	15	19	AS1M A53B	---	16	0.25	1 1/2
							1 1/2
							1 1/2
							1 1/2
							1 1/2
							1 1/2
							1 1/2
DEPTH (feet bg)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL			AMOUNT (cubic feet)	METHOD OF PLACEMENT
FROM	TO						
0	120	14.75	Sand Mix Ready Mix			90.36	grav. tremie meas.
120	170	14.75	Hydrated Bentonite Chips			35.90	grav. tremie meas.
170	805	14.75	6/9 Silica Sand			455.95	Tremie Pipe
FOR OSE INTERNAL USE <i>Renumbered from C-3782-POD 1</i> WR-20 WELL RECORD & LOG (Version 06/08/2012)							
FILE NUMBER <i>C-3832</i>			POD NUMBER <i>POD 2</i>			TRN NUMBER <i>555125</i>	
LOCATION <i>25.30.28.3343</i>						PAGE 1 OF 2	

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	30	30	Cemented Sand, light tan, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
30	40	10	Sandy Silt, light brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
40	60	20	Sandy clay, reddish brown	<input type="radio"/> Y <input type="radio"/> N	
60	80	20	Silty Sand, light brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
80	250	170	Fine to Medium Sand, light tan, sub-angular to rounded	<input type="radio"/> Y <input type="radio"/> N	
250	260	10	Clayey Sand, brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
260	320	60	Fine Sand, light tan, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
320	380	60	Silty Sand, brownish gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
380	410	30	Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
410	530	120	Clayey Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
530	590	60	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
590	600	10	Clayey Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
600	630	30	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
630	650	20	Clayey Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
650	700	50	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
700	710	10	Clayey Sand, brown and gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
710	760	50	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
760	770	10	Clay, 75% gray, 25% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
770	780	10	Clay, 50% gray, 50% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
780	790	10	Clay, 25% gray, 75% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
790	805	15	Sandy Clay, Grayish red, 10% white sand.	<input checked="" type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP <input checked="" type="radio"/> AIR LIFT <input type="radio"/> BAILER <input checked="" type="radio"/> OTHER - SPECIFY: TBD by pump test				TOTAL ESTIMATED WELL YIELD (gpm): TBD	

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: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Silverio Galindo, Gabriel Armijo, Pedro Pizano		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:		
	 SIGNATURE OF DRILLER / PRINT SIGHNEE NAME		2-13-15 DATE

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/08/2012)		
FILE NUMBER	C-3832	POD NUMBER	POD 2	TRN NUMBER	555125
LOCATION	25.30.28.3343			PAGE 2 OF 2	

Locator Tool Report

General Information:

Application ID:27 Date: 05-28-2015 Time: 12:01:24

WR File Number: C-03782-POD1
Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD
Applicant Last Name: RENUMBERED C-3832-POD2

GW Basin: CARLSBAD
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 28, Township 25S, Range 30E.

Coordinate System Details:

Geographic Coordinates:

Latitude:	32 Degrees	5 Minutes	40.1 Seconds	N
Longitude:	103 Degrees	53 Minutes	32.2 Seconds	W

Universal Transverse Mercator Zone: 13N

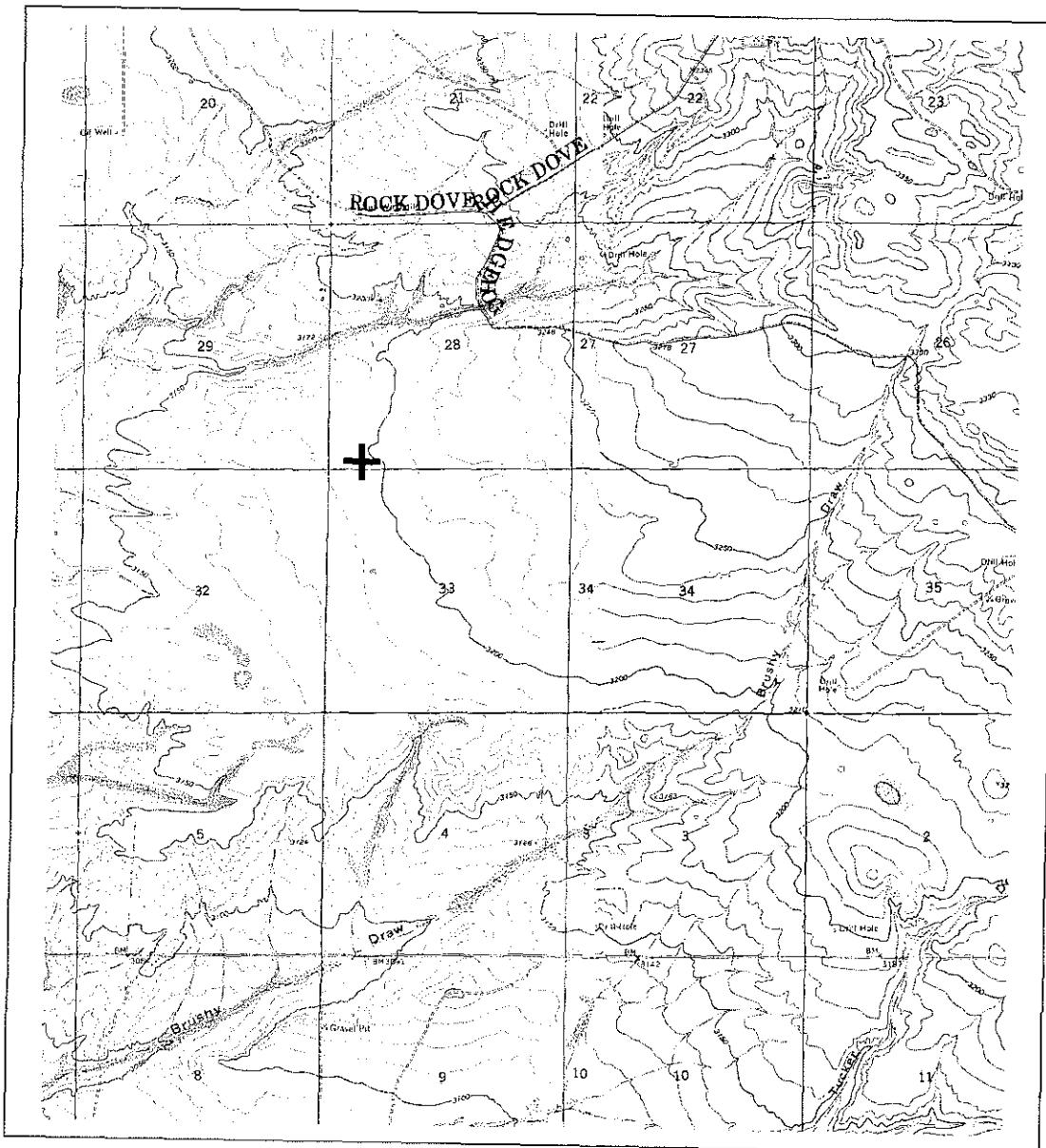
NAD 1983(92) (Meters)	N: 3,551,444	E: 604,526
NAD 1983(92) (Survey Feet)	N: 11,651,697	E: 1,983,348
NAD 1927 (Meters)	N: 3,551,243	E: 604,573
NAD 1927 (Survey Feet)	N: 11,651,036	E: 1,983,505

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 121,428	E: 206,630
NAD 1983(92) (Survey Feet)	N: 398,385	E: 677,920
NAD 1927 (Meters)	N: 121,410	E: 194,077
NAD 1927 (Survey Feet)	N: 398,327	E: 636,734

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: C-03782-POD1 Scale: 1:47,832

Northing/Easting: UTM83(92) (Meter): N: 3,551,444 E: 604,526

Northing/Easting: SPCS83(92) (Feet): N: 398.385 E: 677.920

GW Basin: Carlsbad



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc

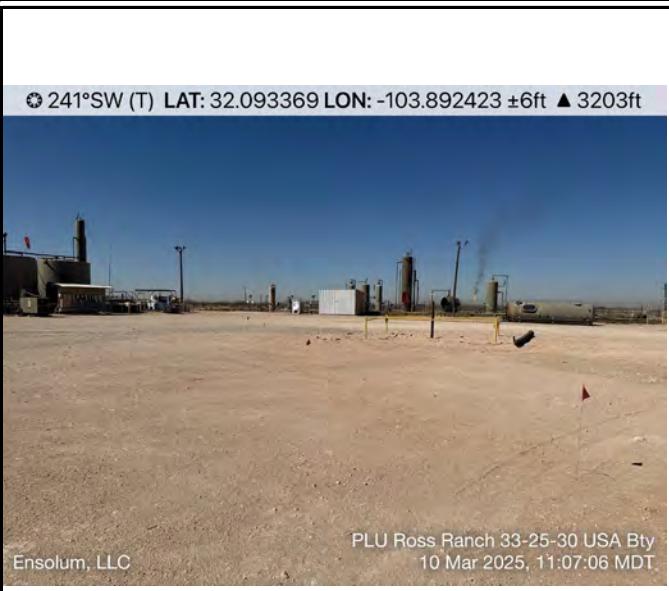
PLU Ross Ranch 33-25-30 USA Battery

nAPP2505230590



Photograph: 1 Date: 3/10/2025
Description: Delineation activities
View: Northeast

Photograph: 2 Date: 3/10/2025
Description: Delineation activities
View: South



Photograph: 3 Date: 3/10/2025
Description: Delineation activities
View: North

Photograph: 4 Date: 3/10/2025
Description: Delineation activities
View: Southwest



Photographic Log

XTO Energy, Inc

PLU Ross Ranch 33-25-30 USA Battery

nAPP2505230590



Photograph: 5

Date: 3/26/2025

Description: Excavation activities

View: Southwest

Photograph: 6

Date: 3/27/2025

Description: Excavation activities

View: Northwest



Photograph: 7

Date: 4/14/2025

Description: Excavation activities

View: Northwest

Photograph: 8

Date: 4/14/2025

Description: Excavation activities

View: Northeast



APPENDIX C

Lithologic Soil Sampling Log

 ENSOLUM								Sample Name: PH01	Date: 4/14/2025
Site Name: PLU Ross Ranch 33-25-30 USA Battery									
Incident Number: nAPP2505230590									
Job Number: 03C1558615									
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Connor Whitman	Method: Hand auger		
Coordinates: 32.093350, -103.892200						Hole Diameter: 4"	Total Depth: 2 feet		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<168	0.5	N	PH01	0.5	0	CCHE	(0-2') CALICHE, tan, silty, very fine to medium grained, non cohesive	
D	<168	0.0	N	PH01A	1	1			
D	<168	0	N	PH01B	2	2	SP	(@2') SAND, Reddish brown, silty, very fine to medium grained, moist, Non cohesive	
Total depth @ 2' bgs									



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 06, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU ROSS DRAW 33-25-30 USA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/28/25 9:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2025	Sampling Date:	02/27/2025
Reported:	03/06/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS 01 0.5' (H251215-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	58.2	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 101 % 71.8-148

Surrogate: 1-Chlorooctadecane 106 % 63.9-155

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:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 02 0.5' (H251215-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 98.1 % 71.8-148

Surrogate: 1-Chlorooctadecane 102 % 63.9-155

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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:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 03 0.5' (H251215-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	160	16.0	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	82.5	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 95.9 % 71.8-148

Surrogate: 1-Chlorooctadecane 101 % 63.9-155

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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:

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

Received:	02/28/2025	Sampling Date:	02/27/2025
Reported:	03/06/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS 04 0.5' (H251215-04)

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	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 92.3 % 71.8-148

Surrogate: 1-Chlorooctadecane 95.5 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 05 0.5' (H251215-05)

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	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	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	96.0	16.0	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 81.3 % 71.8-148

Surrogate: 1-Chlorooctadecane 85.0 % 63.9-155

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 06 0.5' (H251215-06)

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	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	272	16.0	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	190	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	34.2	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 85.5 % 71.8-148

Surrogate: 1-Chlorooctadecane 88.0 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/28/2025	Sampling Date:	02/27/2025
Reported:	03/06/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS 07 0.5' (H251215-07)

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	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	<0.050	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.76	113	6.00	2.95		
Total BTEX	<0.300	0.300	03/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	320	16.0	03/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	206	103	200	4.14		
DRO >C10-C28*	314	10.0	03/03/2025	ND	202	101	200	1.22		
EXT DRO >C28-C36	50.1	10.0	03/03/2025	ND						

Surrogate: 1-Chlorooctane 89.7 % 71.8-148

Surrogate: 1-Chlorooctadecane 88.4 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 08 0.5' (H251215-08)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2025	ND	2.03	101	2.00	1.32		
Toluene*	0.562	0.050	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	1.32	0.050	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	20.6	0.150	03/04/2025	ND	6.76	113	6.00	2.95	GC-NC1	
Total BTEX	22.5	0.300	03/04/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 221 % 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	1600	16.0	03/03/2025	ND	416	104	400	0.00	QM-07
TPH 8015M									

Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		365	10.0	03/03/2025	ND	206	103	200	4.14	
DRO >C10-C28*		2490	10.0	03/03/2025	ND	202	101	200	1.22	
EXT DRO >C28-C36		335	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 115 % 71.8-148

Surrogate: 1-Chlorooctadecane 88.6 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2025 Sampling Date: 02/27/2025
 Reported: 03/06/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Alyssa Parras
 Project Location: XTO 32.09279-103.89216

Sample ID: SS 09 0.5' (H251215-09)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.847	0.500	03/04/2025	ND	2.03	101	2.00	1.32	GC-NC1	
Toluene*	20.1	0.500	03/04/2025	ND	2.15	107	2.00	2.14		
Ethylbenzene*	8.54	0.500	03/04/2025	ND	2.19	109	2.00	3.15		
Total Xylenes*	100	1.50	03/04/2025	ND	6.76	113	6.00	2.95	GC-NC1	
Total BTEX	130	3.00	03/04/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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	3160	16.0	03/03/2025	ND	416	104	400	0.00	
TPH 8015M									

Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		872	10.0	03/03/2025	ND	206	103	200	4.14	
DRO >C10-C28*		2990	10.0	03/03/2025	ND	202	101	200	1.22	
EXT DRO >C28-C36		389	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 137 % 71.8-148

Surrogate: 1-Chlorooctadecane 97.6 % 63.9-155

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

May 16, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU ROSS RANCH 33-25-30 USA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 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.

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, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/15/2025	Sampling Date:	05/13/2025
Reported:	05/16/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09302,-103.89246		

Sample ID: SS 11 0.5 (H252934-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	05/16/2025	ND	2.15	108	2.00	1.47	
Toluene*		<0.050	0.050	05/16/2025	ND	2.26	113	2.00	2.38	
Ethylbenzene*		<0.050	0.050	05/16/2025	ND	2.14	107	2.00	1.22	
Total Xylenes*		<0.150	0.150	05/16/2025	ND	6.40	107	6.00	1.22	
Total BTEX		<0.300	0.300	05/16/2025	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	05/16/2025	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	05/15/2025	ND	188	93.9	200	1.42	
DRO >C10-C28*		<10.0	10.0	05/15/2025	ND	199	99.4	200	1.51	
EXT DRO >C28-C36		<10.0	10.0	05/15/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.3 % 40.6-153

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/15/2025 Sampling Date: 05/13/2025
 Reported: 05/16/2025 Sampling Type: Soil
 Project Name: PLU ROSS RANCH 33-25-30 USA BATTER Sampling Condition: Cool & Intact
 Project Number: 03C1558615 Sample Received By: Tamara Oldaker
 Project Location: XTO 32.09302,-103.89246

Sample ID: SS 12 0.5 (H252934-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/16/2025	ND	2.15	108	2.00	1.47		
Toluene*	<0.050	0.050	05/16/2025	ND	2.26	113	2.00	2.38		
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.14	107	2.00	1.22		
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.40	107	6.00	1.22		
Total BTEX	<0.300	0.300	05/16/2025	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	224	16.0	05/16/2025	ND	480	120	400	0.00		
TPH 8015M										

Analyte		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/15/2025	ND	188	93.9	200	1.42		
DRO >C10-C28*	<10.0	10.0	05/15/2025	ND	199	99.4	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	05/15/2025	ND						

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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† Cardin



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ΕΛΒΜ 006 Β 3 2 10/07/21

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



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

March 17, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU ROSS DRAW 33-25-30 USA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/11/25 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS 10 0.5' (H251426-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/12/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	34.4	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 01 0.5' (H251426-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	03/12/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	2970	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	550	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 02 0.5' (H251426-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	03/12/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	3780	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	788	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 03 0.5' (H251426-04)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	03/12/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	2020	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	418	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 04 0.5' (H251426-05)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/12/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	77.0	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	22.6	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 67.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 05 0.5' (H251426-06)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	0.198	0.050	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1	
Total Xylenes*	0.626	0.150	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	0.824	0.300	03/12/2025	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	03/12/2025	ND	480	120	400	0.00		
TPH 8015M									S-06	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	68.7	50.0	03/13/2025	ND	212	106	200	1.36	
DRO >C10-C28*	14400	50.0	03/13/2025	ND	195	97.4	200	1.51	
EXT DRO >C28-C36	1090	50.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 557 % 44.4-145

Surrogate: 1-Chlorooctadecane 574 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 06 0.5' (H251426-07)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	4800	16.0	03/12/2025	ND	448	112	400	0.00	QM-07	
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	3220	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	527	10.0	03/12/2025	ND					S-04	

Surrogate: 1-Chlorooctane 170 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 07 0.5' (H251426-08)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	4190	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	812	10.0	03/12/2025	ND					S-04	

Surrogate: 1-Chlorooctane 175 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 08 0.5' (H251426-09)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	5730	16.0	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	1790	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	370	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 73.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 09 0.5' (H251426-10)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	176	16.0	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	450	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	94.5	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 64.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.3 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 10 0.5' (H251426-11)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	992	16.0	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	201	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	34.3	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.5 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 11 0.5' (H251426-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	0.890	0.050	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1	
Total Xylenes*	3.15	0.150	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	4.04	0.300	03/12/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	20600	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M									S-04	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	307	10.0	03/12/2025	ND	212	106	200	1.36	
DRO >C10-C28*	7730	10.0	03/12/2025	ND	195	97.4	200	1.51	
EXT DRO >C28-C36	1180	10.0	03/12/2025	ND					

Surrogate: 1-Chlorooctane 376 % 44.4-145

Surrogate: 1-Chlorooctadecane 171 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 12 0.5' (H251426-13)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1730	16.0	03/12/2025	ND	448	112	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*	29.9	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	997	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	160	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 13 0.5' (H251426-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	0.061	0.050	03/12/2025	ND	2.18	109	2.00	0.816	GC-NC1	
Ethylbenzene*	0.134	0.050	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1	
Total Xylenes*	0.972	0.150	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	1.17	0.300	03/12/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1490	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M										

Analyte		Result		Reporting Limit		Analyzed		Method Blank		BS		% Recovery		True Value QC		RPD		Qualifier	
GRO C6-C10*	67.9	10.0	03/12/2025	ND	212	106	200	1.36											
DRO >C10-C28*	2540	10.0	03/12/2025	ND	195	97.4	200	1.51											
EXT DRO >C28-C36	357	10.0	03/12/2025	ND															

Surrogate: 1-Chlorooctane 140 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 14 0.5' (H251426-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	41.9	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	19.3	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 67.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.8 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 15 0.5' (H251426-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/12/2025	ND	6.92	115	6.00	0.0521		
Total BTEX	<0.300	0.300	03/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.36		
DRO >C10-C28*	<10.0	10.0	03/12/2025	ND	195	97.4	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 75.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.6 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 16 0.5' (H251426-17)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	03/12/2025	ND	1.90	94.9	2.00	0.195	
Toluene*		0.113	0.050	03/12/2025	ND	2.18	109	2.00	0.816	GC-NC1
Ethylbenzene*		1.56	0.050	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1
Total Xylenes*		8.79	0.150	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1
Total BTEX		10.5	0.300	03/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					S-04	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		5600	16.0	03/12/2025	ND	448	112	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*		672	10.0	03/12/2025	ND	212	106	200	1.36	
DRO >C10-C28*		9410	10.0	03/12/2025	ND	195	97.4	200	1.51	
EXT DRO >C28-C36		1010	10.0	03/12/2025	ND					

Surrogate: 1-Chlorooctane 504 % 44.4-145

Surrogate: 1-Chlorooctadecane 238 % 40.6-153

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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 17 0.5' (H251426-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	1.31	0.500	03/12/2025	ND	2.18	109	2.00	0.816	GC-NC1	
Ethylbenzene*	10.8	0.500	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1	
Total Xylenes*	43.8	1.50	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	55.9	3.00	03/12/2025	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M									S-04	

Analyte		Result		Reporting Limit		Analyzed		Method Blank		BS		% Recovery		True Value QC		RPD		Qualifier	
GRO C6-C10*	1110	10.0	03/12/2025	ND	212	106	200	1.36											
DRO >C10-C28*	9630	10.0	03/12/2025	ND	195	97.4	200	1.51											
EXT DRO >C28-C36	1380	10.0	03/12/2025	ND															

Surrogate: 1-Chlorooctane 537 % 44.4-145

Surrogate: 1-Chlorooctadecane 190 % 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:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 18 0.5' (H251426-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	2.57	0.500	03/12/2025	ND	2.18	109	2.00	0.816	GC-NC1	
Ethylbenzene*	15.6	0.500	03/12/2025	ND	2.18	109	2.00	1.18	GC-NC1	
Total Xylenes*	57.3	1.50	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	75.5	3.00	03/12/2025	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M									S-04	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1600	10.0	03/12/2025	ND	212	106	200	1.36	
DRO >C10-C28*	7940	10.0	03/12/2025	ND	195	97.4	200	1.51	
EXT DRO >C28-C36	1020	10.0	03/12/2025	ND					

Surrogate: 1-Chlorooctane 444 % 44.4-145

Surrogate: 1-Chlorooctadecane 149 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 19 0.5' (H251426-20)

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	03/12/2025	ND	1.90	94.9	2.00	0.195		
Toluene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	0.816		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.18	109	2.00	1.18		
Total Xylenes*	0.335	0.150	03/12/2025	ND	6.92	115	6.00	0.0521	GC-NC1	
Total BTEX	0.335	0.300	03/12/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	8240	16.0	03/12/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	207	104	200	4.72		
DRO >C10-C28*	480	10.0	03/12/2025	ND	190	95.1	200	7.28		
EXT DRO >C28-C36	82.0	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 20 0.5' (H251426-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2025	ND	1.95	97.4	2.00	2.42		
Toluene*	0.064	0.050	03/12/2025	ND	2.05	103	2.00	0.705	GC-NC1	
Ethylbenzene*	0.068	0.050	03/12/2025	ND	2.26	113	2.00	1.82	GC-NC1	
Total Xylenes*	0.992	0.150	03/12/2025	ND	6.89	115	6.00	2.10	GC-NC1	
Total BTEX	1.12	0.300	03/12/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	10000	16.0	03/12/2025	ND	448	112	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*	105	10.0	03/12/2025	ND	212	106	200	1.84		
DRO >C10-C28*	8450	10.0	03/12/2025	ND	203	102	200	0.912		
EXT DRO >C28-C36	1260	10.0	03/12/2025	ND					S-04	

Surrogate: 1-Chlorooctane 370 % 44.4-145

Surrogate: 1-Chlorooctadecane 338 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 21 0.5' (H251426-22)

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	03/12/2025	ND	1.95	97.4	2.00	2.42		
Toluene*	<0.050	0.050	03/12/2025	ND	2.05	103	2.00	0.705		
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	2.26	113	2.00	1.82		
Total Xylenes*	0.171	0.150	03/12/2025	ND	6.89	115	6.00	2.10		
Total BTEX	<0.300	0.300	03/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	1.84		
DRO >C10-C28*	4170	10.0	03/12/2025	ND	203	102	200	0.912		
EXT DRO >C28-C36	825	10.0	03/12/2025	ND					S-04	

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 196 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 22 0.5' (H251426-23)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	03/12/2025	ND	1.95	97.4	2.00	2.42	
Toluene*		0.065	0.050	03/12/2025	ND	2.05	103	2.00	0.705	GC-NC1
Ethylbenzene*		0.208	0.050	03/12/2025	ND	2.26	113	2.00	1.82	GC-NC1
Total Xylenes*		4.23	0.150	03/12/2025	ND	6.89	115	6.00	2.10	GC-NC1
Total BTEX		4.50	0.300	03/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 246 % 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		4160	16.0	03/12/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		540	50.0	03/13/2025	ND	212	106	200	1.84	
DRO >C10-C28*		12100	50.0	03/13/2025	ND	203	102	200	0.912	
EXT DRO >C28-C36		1790	50.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 536 % 44.4-145

Surrogate: 1-Chlorooctadecane 345 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 23 0.5' (H251426-24)

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	03/12/2025	ND	1.95	97.4	2.00	2.42		
Toluene*	0.094	0.050	03/12/2025	ND	2.05	103	2.00	0.705	GC-NC1	
Ethylbenzene*	0.106	0.050	03/12/2025	ND	2.26	113	2.00	1.82	GC-NC1	
Total Xylenes*	1.68	0.150	03/12/2025	ND	6.89	115	6.00	2.10	GC-NC1	
Total BTEX	1.88	0.300	03/12/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	5120	16.0	03/12/2025	ND	448	112	400	0.00		
TPH 8015M										

Analyte		Result		Reporting Limit		Analyzed		Method Blank		BS		% Recovery		True Value QC		RPD		Qualifier	
GRO C6-C10*	44.7	10.0	03/12/2025	ND	212	106	200	1.84											
DRO >C10-C28*	2330	10.0	03/12/2025	ND	203	102	200	0.912											
EXT DRO >C28-C36	364	10.0	03/12/2025	ND															

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 137 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 24 0.5' (H251426-25)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.500	0.500	03/12/2025	ND	1.95	97.4	2.00	2.42	
Toluene*		4.22	0.500	03/12/2025	ND	2.05	103	2.00	0.705	GC-NC1
Ethylbenzene*		4.93	0.500	03/12/2025	ND	2.26	113	2.00	1.82	GC-NC1
Total Xylenes*		65.4	1.50	03/12/2025	ND	6.89	115	6.00	2.10	GC-NC1
Total BTEX		74.6	3.00	03/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 145 % 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		7730	16.0	03/12/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		1680	50.0	03/13/2025	ND	212	106	200	1.84	
DRO >C10-C28*		15200	50.0	03/13/2025	ND	203	102	200	0.912	
EXT DRO >C28-C36		2170	50.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 701 % 44.4-145

Surrogate: 1-Chlorooctadecane 404 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 25 0.5' (H251426-26)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	03/12/2025	ND	1.95	97.4	2.00	2.42	
Toluene*		0.194	0.050	03/12/2025	ND	2.05	103	2.00	0.705	GC-NC1
Ethylbenzene*		0.416	0.050	03/12/2025	ND	2.26	113	2.00	1.82	GC-NC1
Total Xylenes*		6.92	0.150	03/12/2025	ND	6.89	115	6.00	2.10	GC-NC1
Total BTEX		7.53	0.300	03/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 196 % 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		14200	16.0	03/12/2025	ND	448	112	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*		327	10.0	03/12/2025	ND	212	106	200	1.84	
DRO >C10-C28*		8750	10.0	03/12/2025	ND	203	102	200	0.912	
EXT DRO >C28-C36		1290	10.0	03/12/2025	ND					

Surrogate: 1-Chlorooctane 473 % 44.4-145

Surrogate: 1-Chlorooctadecane 337 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Lab I.D.	Sample I.D.	Sample Depth (feet)	
H257426	CS10	0, 5	(G)RAB OR (C)OMP
12	CS11		# CONTAINERS
13	CS12		GROUNDWATER
14	CS13		WASTEWATER
15	CS14		SOIL
16	CS15		OIL
17	CS16		SLUDGE
18	CS17		OTHER :
19	CS18		ACID/BASE:
20	CS19		ICE / COOL
			OTHER :
		DATE	TIME
		3/16/25	1341
			1344
			1346
			1348
			1350
			1355
			1400
			1402
			1404
			1406
			BTEX
			TPH
			CHLORIDE

Relinquished By:	 Chris		
Received By:	 Chris		
Date:	3-11-25	Verbal Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Time:	1515	All Results are emailed. Please provide Email address:	
Date:	3-11-25	T.Morrissey@ensolum.com, kthomas@ensolum.com	
Relinquished By:	 Chris		

Time: _____
A.F.E.: _____
Cost Center: 108111001
Incident ID: nAPP2505230590

Sampler - UPS - Bus - Other:		Corrected Temp. °C		1.3	
		Sample Condition		CHECKED BY:	
		Cool	Intact	(Initials)	Turnaround Time:
Yes	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rush	Standard
					Bacteria (only) Sample Condition
					Cool Intact Observed Temp. °C

FORM-008 R 3.2 10/01/21

• **Written changes** cannot accept verbal changes. Please email changes to celly_keene@cardinalccc.org.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

3043

Company Name:		BILL TO												ANALYSIS REQUEST	
		P.O. #:		Company: XTO Energy Inc.		Attn: Colton Brown		Address: 3104 E. Green St.		City: Carlsbad					
Project Manager:		Tracy Hillard		State: NM		Zip: 88220		State: NM		Zip: 88220					
Address:		3122 National Parks Hwy		Phone #:		Fax #:		Phone #:		Fax #:					
City:		Carlsbad		Project #:		Project Owner: XTO		City: Carlsbad		Project Name:					
Project Location:															
Sampler Name:		Connor Whitman													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	Sample Depth (feet)		(G)RAB OR (C)OMP.		MATRIX		PRESERV		SAMPLING					
H257424 21 22 23 24 25 26 CS25	C20 CS21 CS22 CS23 CS24 CS25	0.5 C 1		# CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		DATE		TIME					
						ACID/BASE: ICE / COOL OTHER :									
						3-10-25		1408		1410					
										1412					
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 02, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU ROSS DRAW 33-25-30 USA BATTERY

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 26 0.5' (H251877-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	57.9	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	20.9	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 67.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 27 0.5' (H251877-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	125	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	51.6	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 85.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.6 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 28 0.5' (H251877-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	400	16.0	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	120	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	36.7	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 29 0.5' (H251877-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	97.4	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	18.2	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 30 0.5' (H251877-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	21.1	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.4 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 31 0.5' (H251877-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	36.2	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 32 0.5' (H251877-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	2.16	108	2.00	5.67		
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	111	2.00	10.1		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.46	123	2.00	9.68		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.46	124	6.00	8.78		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	22.9	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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Analytical Results For:

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

Received: 03/31/2025 Sampling Date: 03/27/2025
 Reported: 04/02/2025 Sampling Type: Soil
 Project Name: PLU ROSS DRAW 33-25-30 USA BATTER' Sampling Condition: Cool & Intact
 Project Number: 03C1558615 (SPILLS) Sample Received By: Tamara Oldaker
 Project Location: XTO 32.09279-103.89216

Sample ID: CS 33 0.5' (H251877-08)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	0.886	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	0.886	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 152 % 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	1600	16.0	04/01/2025	ND	448	112	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*	130	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*	2730	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36	375	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.0 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: CS 34 0.5' (H251877-09)

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	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	0.088	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	0.073	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	2.27	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	2.43	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	1180	16.0	04/01/2025	ND	448	112	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*	61.0	10.0	03/31/2025	ND	208	104	200	0.642		
DRO >C10-C28*	1570	10.0	03/31/2025	ND	189	94.7	200	0.781		
EXT DRO >C28-C36	269	10.0	03/31/2025	ND						

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.0 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 01 0.5' (H251877-10)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		1170	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		153	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		17.8	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.5 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 02 0.5' (H251877-11)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		1760	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		19.6	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.5 % 40.6-153

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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 03 0.5' (H251877-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		2160	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		234	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		17.3	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.6 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 04 0.5' (H251877-13)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		816	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		12.1	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 05 0.5' (H251877-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		560	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		<10.0	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		<10.0	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 06 0.5' (H251877-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		1300	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	03/31/2025	ND	208	104	200	0.642	
DRO >C10-C28*		197	10.0	03/31/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		24.6	10.0	03/31/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.0 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 07 0.5' (H251877-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		6000	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	04/01/2025	ND	208	104	200	0.642	
DRO >C10-C28*		223	10.0	04/01/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		24.3	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 08 0.5' (H251877-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		4480	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	04/01/2025	ND	208	104	200	0.642	
DRO >C10-C28*		11.2	10.0	04/01/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 09 0.5' (H251877-18)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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		160	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	04/01/2025	ND	208	104	200	0.642	
DRO >C10-C28*		<10.0	10.0	04/01/2025	ND	189	94.7	200	0.781	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 10 0.5' (H251877-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		48.0	16.0	04/01/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		<10.0	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 18 0.5' (H251877-20)

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	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	<0.300	0.300	04/01/2025	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	1570	16.0	04/01/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	32.1	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 80.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 19 0.5' (H251877-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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		4800	16.0	04/01/2025	ND	416	104	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		<10.0	10.0	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		14.3	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.1 % 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:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 20 0.5' (H251877-22)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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		5840	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		226	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		11.7	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 21 0.5' (H251877-23)

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	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	<0.300	0.300	04/01/2025	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	2160	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	29.3	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 22 0.5' (H251877-24)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	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	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		<10.0	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.4 % 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:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 23 0.5' (H251877-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	<0.300	0.300	04/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	4240	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	40.4	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 70.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 24 0.5' (H251877-26)

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	04/01/2025	ND	1.96	97.9	2.00	3.48	
Toluene*		<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87	
Total BTEX		<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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		5680	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		239	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		19.5	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 25 0.5' (H251877-27)

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	04/01/2025	ND	1.96	97.9	2.00	3.48		
Toluene*	<0.050	0.050	04/01/2025	ND	1.96	98.2	2.00	3.45		
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	1.95	97.3	2.00	3.90		
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.06	101	6.00	2.87		
Total BTEX	<0.300	0.300	04/01/2025	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	896	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	14.8	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.3 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 26 1' (H251877-28)

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

Surrogate: 4-Bromofluorobenzene (PID) 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		32.0	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		<10.0	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.4 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 27 1' (H251877-29)

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

Surrogate: 4-Bromofluorobenzene (PID) 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	176	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 28 1' (H251877-30)

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

Surrogate: 4-Bromofluorobenzene (PID) 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	192	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 11 0.5' (H251877-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/01/2025	ND	2.13	107	2.00	2.58	
Toluene*		<0.050	0.050	04/01/2025	ND	2.17	108	2.00	2.77	
Ethylbenzene*		<0.050	0.050	04/01/2025	ND	2.11	106	2.00	3.51	
Total Xylenes*		<0.150	0.150	04/01/2025	ND	6.24	104	6.00	3.85	
Total BTEX		<0.300	0.300	04/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		960	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		924	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		203	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 12 0.5' (H251877-32)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		768	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		416	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		64.8	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 13 0.5' (H251877-33)

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

Surrogate: 4-Bromofluorobenzene (PID) 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	2600	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	1860	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	253	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 14 0.5' (H251877-34)

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

Surrogate: 4-Bromofluorobenzene (PID) 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	1390	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	280	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	33.5	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 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:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 15 0.5' (H251877-35)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		2360	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		1540	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		210	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 16 0.5' (H251877-36)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	237	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	35.1	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: FS 17 0.5' (H251877-37)

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

Surrogate: 4-Bromofluorobenzene (PID) 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		656	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05	
DRO >C10-C28*		111	10.0	04/01/2025	ND	209	105	200	3.30	
EXT DRO >C28-C36		13.4	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SW 01 0-1' (H251877-38)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/01/2025	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	04/01/2025	ND	217	109	200	5.05		
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	209	105	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/31/2025	Sampling Date:	03/27/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	PLU ROSS DRAW 33-25-30 USA BATTER'	Sampling Condition:	Cool & Intact
Project Number:	03C1558615 (SPILLS)	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SW 02 0-0.5' (H251877-39)

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

Surrogate: 4-Bromofluorobenzene (PID) 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	1090	16.0	04/01/2025	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	04/01/2025	ND	205	102	200	2.59		
DRO >C10-C28*	19.3	10.0	04/01/2025	ND	203	101	200	1.02		
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND						

Surrogate: 1-Chlorooctane 74.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

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

BILL TO

Company Name:	Ensolum, LLC	P.O. #:	
Project Manager:	Tracy Hillard	Company:	XTO Energy Inc.
Address:	3122 National Parks Hwy	Attn:	Colton Brown
City:	Carlsbad	Address:	3104 E. Green St.
Phone #:	337 257-8307	City:	Carlsbad
Project #:	03C1558615	State:	NM
Project Name:	PLU Ross Ranch 33-25-30 USA Battery - Spills	Zip:	88220
Project Location:		Phone #:	
Sampler Name:	Connor Whitman	Fax #:	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX			PRESERV.	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL		
H057877	CS20	0.5	C 1					
1	CS27							
2	CS28							
3	CS29							
4	CS30							
5	CS31							
6	CS32							
7	CS33							
8	CS34							
9								
10	FS01							

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Relinquished By:

Date: 3-31-25

Received By:

Time: 12:15

Date: Received By:

Time: 3/31/2025

REMARKS: All Results are emailed. Please provide Email address:

T.Hillard@ensolum.com, TMorrissey@ensolum.com, kthomas@ensolum.com

Delivered By: (Circle One)	Observed Temp. °C <u>3.4</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	Checked By: <u>GFCM: 48605000</u>	Turnaround Time: <u>1/40</u>	Standard <input type="checkbox"/>	Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	Observed Temp. °C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>3.7</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>48h-</u>	Thermometer ID <u>113</u>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor <u>0.0C</u>

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2 of 4

		BILL TO		ANALYSIS REQUEST	
Company Name:	Ensolum, LLC	P.O. #:		Company:	XTO Energy Inc.
Project Manager:	Tracy Hillard	Attn:	Colton Brown	Address:	3104 E. Green St.
Address:	3122 National Parks Hwy	City:	Carlsbad	State:	NM Zip: 88220
City:	Carlsbad	Fax #:			
Phone #:	337 257-8307	Project Owner:	XTO		
Project #:	03C1558615	Project Name:	PLU Ross Ranch 33-25-30 USA Battery - Sills	State:	NM Zip: 88220
Project Location:		Phone #:			
Sampler Name:	Connor Whitman	Fax #:			
FOR LAB USE ONLY					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX		PRESERV.	SAMPLING
				DATE	TIME		
H051817	F502	0.5	C1	3-27-25	1035	BTEX	
11						TPH	
12	F503					CHLORIDE	
13	F504						
14	F505						
15	F506						
16	F507						
17	F508						
18	F509						
19	F510						
20	F518						

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Relinquished By: *Theresa Hillard*

Received By: *Theresa Hillard*

Date: 5-31-25 Time: 13:15

Received By: *Theresa Hillard*

Date: 5-31-25 Time: 13:15

Verbal Result: Yes No Add "Phone #":

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, Kthomasen@ensolum.com

REMARKS: Cost Center: 108111001 Incident ID: nAPP2505230590

A/F:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time	Standard	Bacteria (only) Sample Condition	Observed Temp. °C
Sampler - UPS - Bus - Other:	3.4 3.7	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Theresa Hillard</i>	#140 RUSH Thermometer ID: 113 Correction Factor: 0.0°C	<input checked="" type="checkbox"/>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	49.6 No Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		Date: <u>3-31-25</u>	
		Time: <u>12:15</u>	
Date:		Received by:	
Time:		<u>John Schaefer</u>	
Observed Temp. °C <u>3.4</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	REMARKS: Cost	
Corrected Temp. °C <u>3.7</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Verbal Result: <u>All Results are emma</u>	
	Initials) <u>SD</u>	A/F:	
	CHECKED BY:	REMARKS:	
	Thermometer ID # <u>12345</u>	A/F:	
	Correction Factor <u>0</u>	REMARKS:	

FORWARD REFERENCES

レジデンス・アーバン・リビング
RESIDENCE URBAN LIVING
レジデンス・アーバン・リビング



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

4 of 4

		BILL TO		ANALYSIS REQUEST	
Company Name:	Ensolum, LLC	P.O. #:		Company:	XTO Energy Inc.
Project Manager:	Tracy Hillard	Attn:	Colton Brown	Address:	3104 E. Green St.
Address:	3122 National Parks Hwy	City:	Carlsbad	State:	NM
City:	Carlsbad	Zip:	88220	State:	NM
Phone #:	337 257-8307	Fax #:		City:	Carlsbad
Project #:	03C1558615	Project Owner:	XTO	State:	NM
Project Name:	PLU Ross Ranch 33-25-30 USA Battery - Spill	Phone #:		Zip:	88220
Project Location:		Fax #:			
Sampler Name:	Connor Whitman				
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV. SAMPLING
H2518'77	R31	0.5	C1	GROUNDWATER	
31	R312			WASTEWATER	
32				SOIL	
33	F313			OIL	
34	F314			SLUDGE	
35	F315			OTHER:	
36	F316			ACID/BASE:	
37	F317			ICE / COOL	
38	SW01	0'-1'		OTHER:	
39	SW02	0-0.5		DATE	TIME
				3-27-25	1300
				1305	
				1310	
				1315	
				1320	
				1325	
				1330	
				1340	
				1403	✓
				1405	✓
				1410	✓
				1415	✓
				1420	✓
				1425	✓
				1430	✓
				1435	✓
				1440	✓
				1445	✓
				1450	✓
				1455	✓
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				1510	✓
				1515	✓
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				1625	✓
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				1635	✓
				1640	✓
				1645	✓
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				1900	✓
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				1910	✓
				1915	✓
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				1990	✓
				1995	✓
				2000	✓
				2005	✓
				2010	✓
				2015	✓
				2020	✓
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				2175	✓
				2180	✓
				2185	✓
				2190	✓
				2195	✓
				2200	✓
				2205	✓
				2210	✓
				2215	✓
				2220	✓
				2225	✓
				2230	✓
				2235	✓
				2240	✓
				2245	✓
				2250	✓
				2255	✓
				2260	✓
				2265	✓
				2270	✓
				2275	✓
				2280	✓
				2285	✓
				2290	✓
				2295	✓
				2300	✓
				2305	✓
				2310	✓
				2315	✓
				2320	✓
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				2345	✓
				2350	✓
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				2365	✓
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				2375	✓
				2380	✓
				2385	✓
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				2470	✓
				2475	✓
				2480	✓
				2485	✓
				2490	✓
				2495	✓
				2500	✓
				2505	✓
				2510	✓
				2515	✓
				2520	✓
				2525	✓
				2530	✓
				2535	✓
				2540	✓
				2545	✓
				2550	✓
				2555	✓
				2560	✓
				2565	✓
				2570	✓
				2575	✓
				2580	✓
				2585	✓
				2590	✓
				2595	✓
				2600	✓
				2605	✓
				2610	✓
				2615	✓
				2620	✓
				2625	✓
				2630	✓
				2635	✓
				2640	✓
				2645	✓
				2650	✓
				2655	✓
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				2675	✓
				2680	✓
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				2770	✓
				2775	✓
				2780	✓
				2785	✓
				2790	✓
				2795	✓
				2800	✓
				2805	✓
				2810	✓
				2815	✓
				2820	✓
				2825	✓
				2830	✓
				2835	✓
				2840	✓
				2845	✓
				2850	✓
				2855	✓
				2860	✓
				2865	✓
				2870	✓
				2875	✓
				2880	✓
				2885	✓
				2890	✓
				2895	✓
				2900	✓
				2905	✓
				2910	✓
				2915	✓



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

April 17, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU ROSS RANCH 33-25-30 USA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/15/25 14:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: PH 01 0.5' (H252231-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	75.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 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:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: PH 01A 1' (H252231-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Analytical Results For:

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

Received:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: PH 01B 2' (H252231-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Analytical Results For:

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

Received:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: FS 13 0.5' (H252231-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 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:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: FS 15 0.5' (H252231-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 91.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.1 % 40.6-153

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Analytical Results For:

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

Received:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30 USA BATTER	Sampling Condition:	Cool & Intact
Project Number:	03C1558615	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

Sample ID: SW 02 0-0.5' (H252231-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2025	ND	2.11	105	2.00	0.00398		
Toluene*	<0.050	0.050	04/16/2025	ND	2.13	107	2.00	0.477		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.07	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.12	102	6.00	0.984		
Total BTEX	<0.300	0.300	04/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.5	200	2.31		
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	186	92.8	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND						

Surrogate: 1-Chlorooctane 80.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

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Notes and Definitions

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

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hilliard		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Colton Brown			
Phone #: 337 257-8307		Address: 3104 E. Green St.			
Project #: 03C1558615		City: Carlsbad			
Project Name: PLU Ross Ranch 33-25-30 USA Battery		State: NM	Zip: 88220		
Project Location:		Fax #:			
Sampler Name: Connor Whitman		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D.	Sample I.D.	Sample Depth (feet)	MATRIX	PRESERV	SAMPLING
H252231	1	0.5	(G)RAB OR (C)OMP.		
	2	1	# CONTAINERS		
	3	1	GROUNDWATER		
	4	1	WASTEWATER		
	5	1	SOIL		
	6	1	OIL		
		1	SLUDGE		
		1	OTHER:		
		1	ACID/BASE:		
		1	ICE / COOL		
		1	OTHER:		
		1	DATE		
		1	TIME		
		1	4-12-95	1100	
		1		1110	
		1		1115	
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		1		2255	
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Delivered By: (Circle One)	Delivery Method:
Carrier - UPS - Bus - Other:	Carrier - UPS - Bus - Other:
Comments:	

Date: <u>4/5/25</u>		Received By: <u>Matthew Schlesinger</u>	
Time: <u>407</u>		Received By: <u>Matthew Schlesinger</u>	
Date:		REMARKS: Cost Center: 1	
Time:		GFCM: 48604902	
Received Temp. °C	<u>1.3</u>	Sample Condition	CHECKED BY: <u>Matthew Schlesinger</u>
Settled Temp. °C	<u>1.6</u>	Cool	Initials) <u>MS</u>
		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes
		<input type="checkbox"/> No	<input type="checkbox"/> No
		Verbal Result: <input type="checkbox"/> Yes	
		All Results are emailed: <u>PlThilliar@bensum.com</u>	
		Thilliar@bensum.com	
		Turnaround Time: <u>140</u> RU	
		Thermometer ID: <u>#13</u>	
		Correction Factor: <u>-0.5C ± 1.3%</u>	

<input type="checkbox"/> No	Add'l Phone #:																																
Please provide Email address:																																	
com, TMorissette@ensolum.com, kthomason@ensolum.com																																	
08111001	Incident ID: nAPP2505230590																																
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	<input type="checkbox"/>		Corrected Temp. °C																														

Table 1. Summary of the main characteristics of the four groups of patients.

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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 527287

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2505230590
Incident Name	NAPP2505230590 PLU ROSS RANCH 33-25-30 USA BATTERY @ FAPP2126357392
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2126357392] PLU ROSS RANCH 33 25 30 USA BATT

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU ROSS RANCH 33-25-30 USA BATTERY
Date Release Discovered	02/20/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Freeze Other (Specify) Crude Oil Released: 6 BBL Recovered: 2 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
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)	Freezing at the flare

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QUESTIONS, Page 2

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Action 527287

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/17/2025
--	---

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QUESTIONS, Page 3

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Action 527287

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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.

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
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 1/2 and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1/2 and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1/2 and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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.

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)	8240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3235
GRO+DRO (EPA SW-846 Method 8015M)	2860
BTEX (EPA SW-846 Method 8021B or 8260B)	2.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	02/27/2025
On what date will (or did) the final sampling or liner inspection occur	02/11/2026
On what date will (or was) the remediation complete(d)	02/11/2026
What is the estimated surface area (in square feet) that will be reclaimed	6000
What is the estimated volume (in cubic yards) that will be reclaimed	889
What is the estimated surface area (in square feet) that will be remediated	6000
What is the estimated volume (in cubic yards) that will be remediated	889

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.

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.

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QUESTIONS, Page 4

Action 527287

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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.

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 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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/17/2025
--	---

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.

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QUESTIONS, Page 5

Action 527287

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 527287 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
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QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 527287

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	539500
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/09/2026
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	5600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 527287

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 527287
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft ² . All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	1/9/2026