



March 21, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU South Frac Pond
Incident Number nAPP2405971517
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document soil sampling activities performed at the PLU South Frac Pond (Site). The purpose of the soil sampling activities, conducted in accordance with an approved *Sampling Plan (Work Plan)*, was to confirm the absence of impacted soil from a release of produced water at the Site. XTO is submitting this *Closure Request*, describing soil sampling activities that have occurred and requesting no further remediation for Incident Number nAPP2405971517.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 26, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10618°, -103.85288°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 14, 2024, a water transfer polyline failure resulted in the release of 35 barrels (bbls) of produced water onto a 2-track lease road, Right-of-Way (ROW), and adjacent pasture. No fluids were recovered. XTO submitted a Notification of Release (NOR) and an Initial C-141 Application (C-141) on February 28, 2024 to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number nAPP2405971517.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. Analytical results for all delineation soil samples collected indicated soil concentrations were below the most stringent Table I Closure Criteria. The *Work Plan* was submitted on November 20, 2024, and conditionally approved by the NMOCD on December 26, 2024. The *Work Plan* proposed composite sampling of the release extent to confirm the absence of impacted soil. The *Work Plan* also requested a sampling frequency variance of 400 square feet but was denied by the NMOCD. The approved *Work Plan* conditions are:

The Remediation Plan is Conditionally Approved. The release will need to be remediated to the strictest closure criteria standards due to the lateral extents of the release being within 300 ft of a significant watercourse. Part 2 definition: "Watercourse" means a river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water. Due to the sensitive nature of the release location, the variance request for 400 ft² confirmation samples within the area of the release extent that is greater than 300 feet from the intermittent dry wash is denied. The release area will need confirmation

XTO Energy, Inc.
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floor/sidewall samples representing no more than 200 ft². Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur in 90 days after the report has been reviewed.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, 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

CONFIRMATION SOIL SAMPLING ACTIVITIES

Between January 14 and February 14, 2025, Ensolum personnel were onsite to complete confirmation soil sampling according to the approved *Work Plan*. 5-point composite soil samples were collected every 200 square feet from within 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 CS120 were collected from a depth of approximately 0.5 feet below ground surface (bgs). In regards to confirmation soil sampling nomenclature, a CS65 soil sample does not exist as it was inadvertently skipped during soil sample collection activities, giving the total number of soil samples collected at 119, which meets the 200 square-foot per sample requirement for a release extent area of 23,700 square feet. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 1. Photographic documentation of the sampling activities is provided in Appendix A.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and complete laboratory analytical reports are included in Appendix B.

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CLOSURE REQUEST

Confirmation soil sampling activities were conducted at the Site in accordance with the approved *Work Plan* to address the February 2024 produced water release. The *Work Plan*, dated November 20, 2024, is included in Appendix C. Laboratory analytical results for all confirmation soil samples collected from the release extent area indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirements. Based on the soil sample laboratory analytical results, no further remediation is required.

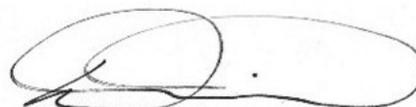
Confirmation soil sampling activities have confirmed the absence of impacted soil. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2405971517.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Daniel Moir, PG (licensed in WY & TX)
Senior Managing Geologist

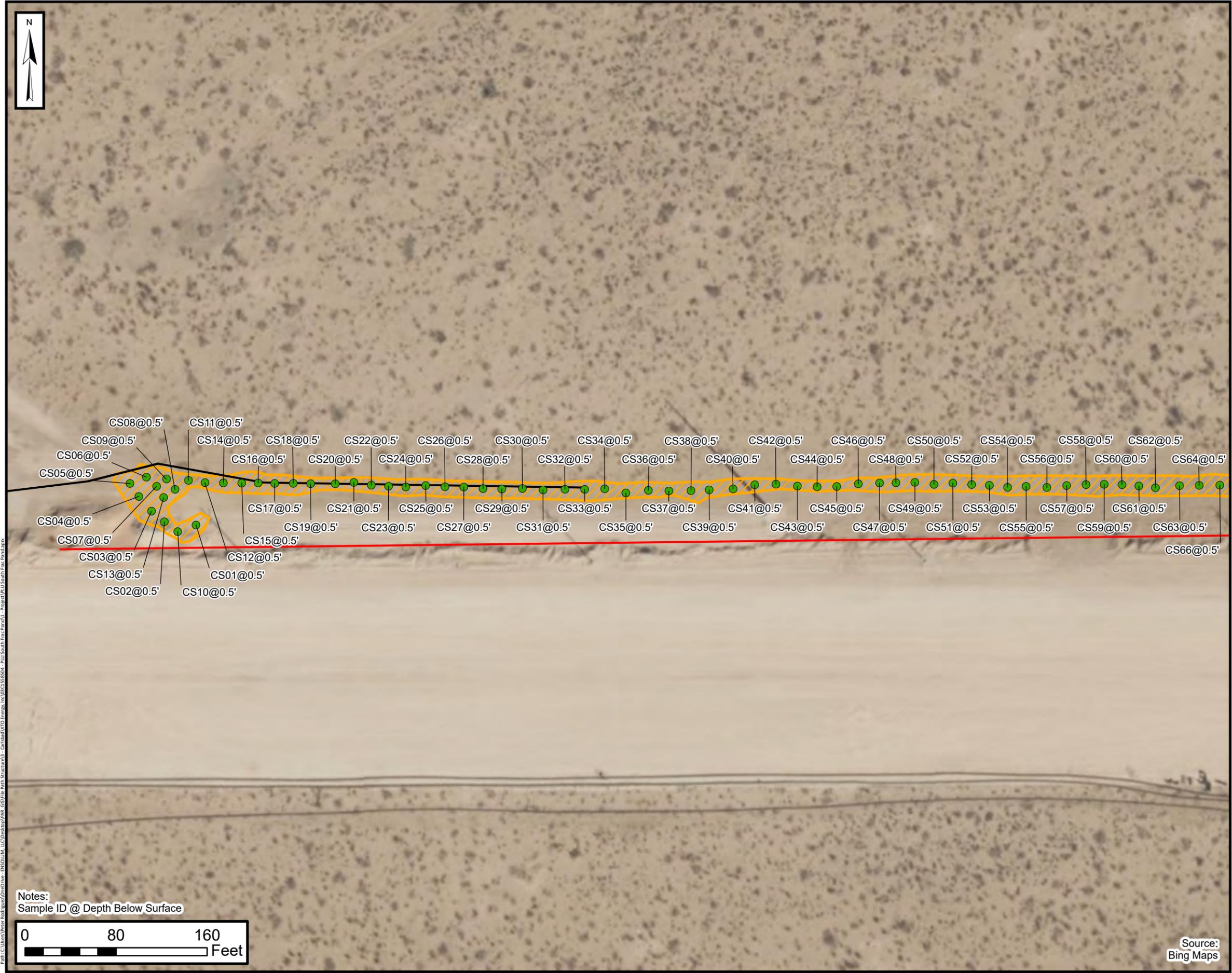
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

- Figure 1A Confirmation Soil Sample Locations (Western Area of Site)
- Figure 1B Confirmation Soil Sample Locations (Eastern Area of Site)
- Table 1 Soil Sample Analytical Results
- Appendix A Photographic Log
- Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix C *Sampling Plan*, dated November 20, 2024



FIGURES



LEGEND

- Confirmation Soil Sample Location Compliant with Closure Criteria
- Electric Utility Line
- Poly Line
- Release Extent

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

**Confirmation Soil
 Sample Locations**

XTO Energy, Inc
 PLU South Frac Pond
 Unit C, Sec 26, T25S, R30E
 Eddy County, New Mexico
 32.10618, -103.85288

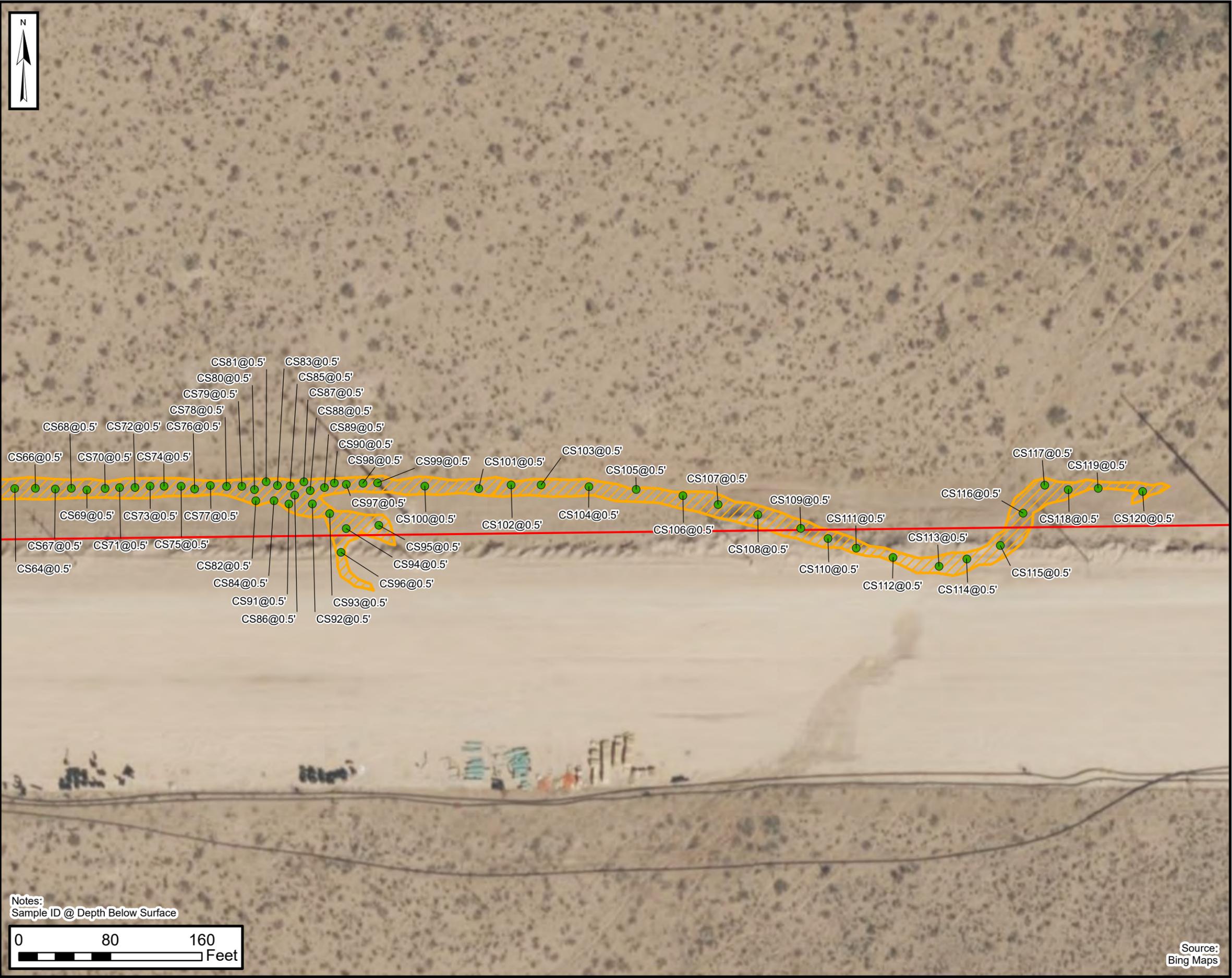
**Figure
 1A**

Incident Number: nAPP2405971517

Notes:
 Sample ID @ Depth Below Surface

0 80 160
 Feet

Source:
 Bing Maps



LEGEND

- Confirmation Soil Sample Location Compliant with Closure Criteria
- Electric Utility Line
- Poly Line
- Release Extent

Notes:
Sample ID @ Depth Below Surface

0 80 160 Feet

Source:
Bing Maps

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**Confirmation Soil
Sample Locations**

XTO Energy, Inc
PLU South Frac Pond
Unit C, Sec 26, T25S, R30E
Eddy County, New Mexico
32.10618, -103.85288

**Figure
1B**

Incident Number: nAPP2405971517



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU South Frac Pond
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
Confirmation Soil Samples										
CS01	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS02	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS03	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS04	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS05	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS06	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS07	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS08	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS09	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS10	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS11	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS12	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS13	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS14	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS15	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS16	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS17	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS18	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS19	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS20	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS21	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS22	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS23	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS24	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS25	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS26	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS27	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS28	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS29	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS30	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS31	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU South Frac Pond
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
CS32	01/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS33	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS34	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS35	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS36	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS37	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS38	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS39	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS40	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS41	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS42	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS43	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS44	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS45	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS46	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS47	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS48	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS49	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS50	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS51	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS52	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS53	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS54	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS55	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS56	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS57	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS58	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS59	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS60	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS61	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS62	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS63	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



**TABLE 1
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PLU South Frac Pond
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
CS64	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS66	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS67	01/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS68	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS69	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS70	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS71	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS72	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS73	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS74	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS75	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS76	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS77	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS78	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS79	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS80	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS81	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS82	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS83	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS84	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS85	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS86	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS87	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS88	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS89	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS90	02/13/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS91	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS92	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS93	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS94	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS95	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS96	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU South Frac Pond
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
CS97	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS98	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS99	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS100	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS101	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS102	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS103	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS104	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS105	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS106	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS107	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS108	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS109	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS110	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS111	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS112	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS113	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS114	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS115	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS116	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS117	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS118	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS119	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS120	02/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A
Photographic Log



Photographic Log
XTO Energy, Inc
PLU South Frac Pond
nAPP2405971517



Photograph: 1 Date: 1/16/2025
Description: Confirmation sampling in release extent
View: West

Photograph: 2 Date: 1/16/2025
Description: Confirmation sampling in release extent
View: East



Photograph: 3 Date: 2/14/2025
Description: Pasture location on edge of release
View: Southwest

Photograph: 4 Date: 2/14/2025
Description: Pasture on edge of release extent
View: Southeast



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



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

January 20, 2025

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

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 13:39.

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 01 0.5' (H250253-01)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 02 0.5' (H250253-02)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 03 0.5' (H250253-03)

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	01/17/2025	ND	2.16	108	2.00	1.32		
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36		
Total BTEX	<0.300	0.300	01/17/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 04 0.5' (H250253-04)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 05 0.5' (H250253-05)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 06 0.5' (H250253-06)

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	01/17/2025	ND	2.16	108	2.00	1.32		
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 07 0.5' (H250253-07)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 08 0.5' (H250253-08)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 09 0.5' (H250253-09)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 10 0.5' (H250253-10)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 11 0.5' (H250253-11)

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	01/17/2025	ND	2.16	108	2.00	1.32	
Toluene*	<0.050	0.050	01/17/2025	ND	2.19	110	2.00	0.195	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.36	118	2.00	0.501	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	7.22	120	6.00	1.36	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/17/2025	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	01/17/2025	ND	182	91.0	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	180	90.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 12 0.5' (H250253-12)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 13 0.5' (H250253-13)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 14 0.5' (H250253-14)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 15 0.5' (H250253-15)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 16 0.5' (H250253-16)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 17 0.5' (H250253-17)

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	01/17/2025	ND	1.61	80.6	2.00	0.171		
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 18 0.5' (H250253-18)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 19 0.5' (H250253-19)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 20 0.5' (H250253-20)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 21 0.5' (H250253-21)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 22 0.5' (H250253-22)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 63.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 23 0.5' (H250253-23)

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	01/17/2025	ND	1.61	80.6	2.00	0.171		
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 24 0.5' (H250253-24)

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	01/17/2025	ND	1.61	80.6	2.00	0.171		
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 29 0.5' (H250253-25)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 30 0.5' (H250253-26)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 31 0.5' (H250253-27)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 32 0.5' (H250253-28)

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	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2025	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	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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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.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 Sampler Name: Uriel Santillana
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:
 PRESERV:
 SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H880353	C501	0.5'	C	1			X				X					
	C502															
	C503															
	C504															
	C505															
	C506															
	C507															
	C508															
	C509															
	C510															

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Relinquished By: Uriel Santillana
 Date: 1-14-25
 Time: 1:33 PM
 Received By: Colton Brown
 Date: 1-14-25
 Time: 1:33 PM
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: usantillana@ensolum.com
 REMARKS: Incident Number: nAPP2405971517
 Cost Center: 1081711001

Delivered By: (Circle One) UPS Bus Other
 Observed Temp. °C: 19.2
 Corrected Temp. °C: 1.32
 Sample Condition: Cool Intact
 Checked By: UP
 Turnaround Time: 4 hr
 Thermometer ID: 4454
 Correction Factor: 0.00
 Bacteria (only) Standard Add'l Phone #:
 Cool Intact Yes No
 Corrected Temp. °C: 19.2



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy
 Project #: 03C1558504
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 P.O. #: Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HS0253	CS11	0.5'	C	1		X						4/4/15	1005	X	X	X
	CS12												1018			
	CS13												1131			
	CS14												1138			
	CS15												1143			
	CS16												1130			
	CS17												1204			
	CS18												1137			
	CS19												1209			
	CS20															

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Relinquished By: [Signature] Date: 4/10/15 Received By: [Signature] Date: 4/10/15
 Relinquished By: [Signature] Date: 1/3/19 Received By: [Signature] Date: 1/3/19
 Delivered By: (Circle One) Observed Temp. °C: 1.9°C Sample Condition: Cool Intact: Yes
 Corrected Temp. °C: 1.8°C Cool Intact: Yes
 Sampler - UPS - Bus - Other: B

FORM-006 R 3.2 10/07/11

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:
 Sample Name: Uriel Santillana

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
#250253	CS 21	0.5'	C	1			X					X							
	CS 22											X							
	CS 23											X							
	CS 24											X							
	CS 29											X							
	CS 30											X							
	CS 31											X							
	CS 32											X							

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Relinquished By: *[Signature]* Date: 1-10-05
 Received By: *[Signature]* Date: 1-3-09
 Relinquished By: *[Signature]* Date:
 Received By: *[Signature]* Date:
 Delivered By: (Circle One) Observed Temp. °C: 1.9°C Sample Condition Cool Intact Yes No
 Corrected Temp. °C: 1.3°C Yes No
 Checked By: *[Signature]*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition Cool Intact Yes No
 Corrected Temp. °C:
 REMARKS: Incident Number: nAPP2405971517
 Cost Center: 1081711001

FORM-000 R 3.2 10/07/21

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



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

January 22, 2025

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

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 01/20/25 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 37 0.5' (H250318-01)

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	01/21/2025	ND	1.81	90.4	2.00	2.31	
Toluene*	<0.050	0.050	01/21/2025	ND	1.89	94.3	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.81	90.5	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.30	88.3	6.00	1.78	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	197	98.7	200	1.99	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	184	91.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 38 0.5' (H250318-02)

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	01/21/2025	ND	1.81	90.4	2.00	2.31	
Toluene*	<0.050	0.050	01/21/2025	ND	1.89	94.3	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.81	90.5	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.30	88.3	6.00	1.78	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	197	98.7	200	1.99	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	184	91.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 39 0.5' (H250318-03)

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	01/21/2025	ND	1.81	90.4	2.00	2.31	
Toluene*	<0.050	0.050	01/21/2025	ND	1.89	94.3	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.81	90.5	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.30	88.3	6.00	1.78	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	197	98.7	200	1.99	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	184	91.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 40 0.5' (H250318-04)

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	01/21/2025	ND	1.81	90.4	2.00	2.31	
Toluene*	<0.050	0.050	01/21/2025	ND	1.89	94.3	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.81	90.5	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.30	88.3	6.00	1.78	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	197	98.7	200	1.99	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	184	91.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 41 0.5' (H250318-05)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 42 0.5' (H250318-06)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 43 0.5' (H250318-07)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 44 0.5' (H250318-08)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 45 0.5' (H250318-09)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 46 0.5' (H250318-10)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 47 0.5' (H250318-11)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 50 0.5' (H250318-12)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 51 0.5' (H250318-13)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 52 0.5' (H250318-14)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 53 0.5' (H250318-15)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 54 0.5' (H250318-16)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 55 0.5' (H250318-17)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 56 0.5' (H250318-18)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 57 0.5' (H250318-19)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 58 0.5' (H250318-20)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 59 0.5' (H250318-21)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 60 0.5' (H250318-22)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 61 0.5' (H250318-23)

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	01/21/2025	ND	1.85	92.3	2.00	1.35	
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 62 0.5' (H250318-24)

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	01/21/2025	ND	1.85	92.3	2.00	1.35		
Toluene*	<0.050	0.050	01/21/2025	ND	1.84	92.0	2.00	1.28		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.93	96.4	2.00	0.925		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.78	96.3	6.00	0.0222		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	215	107	200	3.03		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	187	93.3	200	3.46		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 63 0.5' (H250318-25)

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	01/21/2025	ND	2.00	99.8	2.00	7.71	
Toluene*	<0.050	0.050	01/21/2025	ND	1.97	98.6	2.00	7.50	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.06	103	2.00	6.28	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.23	104	6.00	5.50	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	186	92.8	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 64 0.5' (H250318-26)

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	01/21/2025	ND	2.00	99.8	2.00	7.71	
Toluene*	<0.050	0.050	01/21/2025	ND	1.97	98.6	2.00	7.50	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.06	103	2.00	6.28	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.23	104	6.00	5.50	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	186	92.8	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 66 0.5' (H250318-27)

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	01/21/2025	ND	2.00	99.8	2.00	7.71		
Toluene*	<0.050	0.050	01/21/2025	ND	1.97	98.6	2.00	7.50		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.06	103	2.00	6.28		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.23	104	6.00	5.50		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	186	93.1	200	2.02		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	186	92.8	200	2.23		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2025	Sampling Date:	01/16/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 67 0.5' (H250318-28)

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	01/21/2025	ND	2.00	99.8	2.00	7.71	
Toluene*	<0.050	0.050	01/21/2025	ND	1.97	98.6	2.00	7.50	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.06	103	2.00	6.28	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.23	104	6.00	5.50	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	186	93.1	200	2.02	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	186	92.8	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 49.1-148

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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.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hilliard
 Address: 601 N Marlenfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H250318	CS37	0.5'	C	1			X				X	11/14/25	1003	X	X	X
	CS 38												1018			
	CS 39												1024			
	CS 40												1027			
	CS 46												1024			
	CS 41												1116			
	CS 42												1120			
	CS 43												1130			
	CS 44												1135			
	CS 45												1134			
	CS 46															

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Relinquished By: *[Signature]*
 Date: 1-20-25 Received By: *[Signature]*
 Time: 1:00 PM Received By: *[Signature]*
 Date:
 Time:
 Cost Center: 1081711001

Delivered By: (Circle One) Observed Temp. °C: 1.0 Corrected Temp. °C: 0.4
 Sampler - UPS - Bus - Other:
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*
 Turnaround Time: 48 hr Standard Bacteria (only) Sample Condition Cool Intact Yes No
 Thermometer ID: #443 #140 Yes No
 Correction Factor: 0.5°C Yes No
 Corrected Temp. °C:
 Incident Number: nAPP2405971517

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marlenfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: _____
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 Sampler Name: Uriel Santillana
 P.O. #: _____
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
H250 318	CS 59	0.5'	C	1								1/6/05	1435	+	+	+			
	CS 60												1437						
	CS 61												1446						
	CS 62												1442						
	CS 63												1504						
	CS 64												1508						
	CS 66												1518						
	CS 67												1523						

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Relinquished By: [Signature] Date: Feb-25 Received By: [Signature] Date: Feb-25
 Relinquished By: [Signature] Date: _____ Received By: [Signature] Date: _____
 Turnaround Time: 48 hr Standard Bacteria (only) Sample Condition
 Rush Cool Intact Observed Temp. °C
 Thermometer ID # 1140 Yes No Corrected Temp. °C
 Correction Factor: 0.3°C Yes No Corrected Temp. °C

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



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

February 21, 2025

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

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 02/17/25 12:30.

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 25 0.5 (H250935-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	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	<16.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 26 0.5 (H250935-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 27 0.5 (H250935-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 28 0.5 (H250935-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 33 0.5 (H250935-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 34 0.5 (H250935-06)

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	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	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	02/17/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 35 0.5 (H250935-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	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	02/18/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 36 0.5 (H250935-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	205	102	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 48 0.5 (H250935-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	211	105	200	1.01		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	205	102	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 49 0.5 (H250935-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	205	102	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 68 0.5 (H250935-11)

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	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 69 0.5 (H250935-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 70 0.5 (H250935-13)

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	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 71 0.5 (H250935-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 72 0.5 (H250935-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50	
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 73 0.5 (H250935-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 74 0.5 (H250935-17)

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	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 75 0.5 (H250935-18)

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	02/18/2025	ND	2.12	106	2.00	1.50		
Toluene*	<0.050	0.050	02/18/2025	ND	2.21	110	2.00	0.132		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	0.812		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.72	112	6.00	0.645		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 76 0.5 (H250935-19)

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	02/18/2025	ND	1.91	95.4	2.00	2.09	
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 77 0.5 (H250935-20)

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	02/18/2025	ND	1.91	95.4	2.00	2.09	
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 78 0.5 (H250935-21)

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	02/18/2025	ND	1.91	95.4	2.00	2.09	
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 79 0.5 (H250935-22)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 80 0.5 (H250935-23)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 81 0.5 (H250935-24)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 82 0.5 (H250935-25)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 83 0.5 (H250935-26)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 84 0.5 (H250935-27)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 85 0.5 (H250935-28)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 86 0.5 (H250935-29)

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	02/18/2025	ND	1.91	95.4	2.00	2.09		
Toluene*	<0.050	0.050	02/18/2025	ND	2.02	101	2.00	2.02		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	1.99	99.5	2.00	1.99		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	5.87	97.8	6.00	2.20		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	186	93.1	200	4.98		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	192	95.9	200	6.41		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 87 0.5 (H250935-30)

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	02/18/2025	ND	2.08	104	2.00	2.14	
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	186	93.1	200	4.98	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	192	95.9	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 88 0.5 (H250935-31)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 90 0.5 (H250935-32)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 89 0.5 (H250935-33)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 91 0.5 (H250935-34)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 92 0.5 (H250935-35)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 93 0.5 (H250935-36)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 94 0.5 (H250935-37)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 95 0.5 (H250935-38)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 96 0.5 (H250935-39)

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	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 97 0.5 (H250935-40)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 98 0.5 (H250935-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14	
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 99 0.5 (H250935-42)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 100 0.5 (H250935-43)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 101 0.5 (H250935-44)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 102 0.5 (H250935-45)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 103 0.5 (H250935-46)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 104 0.5 (H250935-47)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14	
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 105 0.5 (H250935-48)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 106 0.5 (H250935-49)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	2.08	104	2.00	2.14		
Toluene*	<0.050	0.050	02/18/2025	ND	2.20	110	2.00	4.70		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.22	111	2.00	5.24		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.84	114	6.00	4.60		
Total BTEX	<0.300	0.300	02/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 107 0.5 (H250935-50)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	197	98.3	200	3.14	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 108 0.5 (H250935-51)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 109 0.5 (H250935-52)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 110 0.5 (H250935-53)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64		
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 111 0.5 (H250935-54)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 112 0.5 (H250935-55)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 113 0.5 (H250935-56)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 114 0.5 (H250935-57)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 115 0.5 (H250935-58)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 116 0.5 (H250935-59)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 117 0.5 (H250935-60)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 118 0.5 (H250935-61)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64		
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/18/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 119 0.5 (H250935-62)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64	
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/14/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: CS 120 0.5 (H250935-63)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2025	ND	1.85	92.5	2.00	2.64		
Toluene*	<0.050	0.050	02/18/2025	ND	2.06	103	2.00	1.17		
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.21	111	2.00	2.29		
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.76	113	6.00	1.46		
Total BTEX	<0.300	0.300	02/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/18/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/18/2025	ND	192	95.8	200	2.30		
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	183	91.5	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marland Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 PRESERV: ICE / COOL

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HS0935	CS25	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1007	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS26	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1036	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS27	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1044	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS28	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1052	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS33	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1056	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS34	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1101	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS35	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1104	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS36	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1204	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS48	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	CS49	0.5	C		<input checked="" type="checkbox"/>	2/13/25	1207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

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Relinquished By: *Evan Roe*
 Date: 2-11-25
 Received By: *Tracy Hillard*
 Date: 2-11-25
 Time: 1330
 Turnaround Time: Standard Rush
 Thermometer ID: #49
 Correction Factor: -0.3
 Observed Temp. °C: 21
 Corrected Temp. °C: 21
 Sample Condition: Cool Intact Bacteria (only)
 Checked By: *TS*
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Bbell@ensolum.com, Tmorrissey@ensolum.com, Thillard@ensolum.com
 REMARKS:
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond State: NM Zip: 88220
 Project Location: 32.10618, -103.85288
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HS0935	LS88	0.5	C	1	✓	2/13/25	1502	✓	✓	✓						
31	CS90	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						
32	CS90	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						
0.5	0.5	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						
0.5	0.5	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						
0.5	0.5	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						
0.5	0.5	0.5	C	1	✓	2/13/25	1503	✓	✓	✓						

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Relinquished By: Evan Roe
 Date: 2-17-25
 Time: 1:30
 Received By: [Signature]
 Date: 2-17-25
 Time: 1:30

Delivered By: (Circle One) Observed Temp. °C 8.1 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 8.4 Bacteria (only) Cool Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C 8.4 Standard Add'l Phone #:
 Turnaround Time: 140 Bacteria (only) Cool Intact Yes No
 Thermometer ID 443-#140 Corrected Temp. °C 8.3 Standard Add'l Phone #:
 Correction Factor 0.3 Bacteria (only) Cool Intact Yes No
 Observed Temp. °C 8.1 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 8.4

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558504 Project Owner: XTO Energy
 Project Name: PLU South Pond
 Project Location: 32.10618, -103.85288
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H50935	43 CS100	0.5	C		✓						2/14/25	1215	✓	✓	✓	
	44 CS101	0.5	C		✓						2/14/25	1218	✓	✓	✓	
	45 CS102	0.5	C		✓						2/14/25	1221	✓	✓	✓	
	46 CS103	0.5	C		✓						2/14/25	1223	✓	✓	✓	
	47 CS104	0.5	C		✓						2/14/25	1226	✓	✓	✓	
	48 CS105	0.5	C		✓						2/14/25	1229	✓	✓	✓	
	49 CS106	0.5	C		✓						2/14/25	1313	✓	✓	✓	
	50 CS107	0.5	C		✓						2/14/25	1315	✓	✓	✓	
	51 CS108	0.5	C		✓						2/14/25	1320	✓	✓	✓	
	52 CS109	0.5	C		✓						2/14/25	1323	✓	✓	✓	

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Relinquished By:
 Date: 2-17-25
 Received By:
 Date: 2-18-25
 Time:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Bbell@ensolum.com, Tmorrissey@ensolum.com, Thillard@ensolum.com
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C: 21 Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: 24 Bacteria (only) Yes No
 Sampler - UPS - Bus - Other:
 Turndown Time: Standard Rush
 Thermometer ID: #115 #116 #117 #118 #119 #120 #121 #122 #123 #124 #125 #126 #127 #128 #129 #130 #131 #132 #133 #134 #135 #136 #137 #138 #139 #140 #141 #142 #143 #144 #145 #146 #147 #148 #149 #150 #151 #152 #153 #154 #155 #156 #157 #158 #159 #160 #161 #162 #163 #164 #165 #166 #167 #168 #169 #170 #171 #172 #173 #174 #175 #176 #177 #178 #179 #180 #181 #182 #183 #184 #185 #186 #187 #188 #189 #190 #191 #192 #193 #194 #195 #196 #197 #198 #199 #200 #201 #202 #203 #204 #205 #206 #207 #208 #209 #210 #211 #212 #213 #214 #215 #216 #217 #218 #219 #220 #221 #222 #223 #224 #225 #226 #227 #228 #229 #230 #231 #232 #233 #234 #235 #236 #237 #238 #239 #240 #241 #242 #243 #244 #245 #246 #247 #248 #249 #250 #251 #252 #253 #254 #255 #256 #257 #258 #259 #260 #261 #262 #263 #264 #265 #266 #267 #268 #269 #270 #271 #272 #273 #274 #275 #276 #277 #278 #279 #280 #281 #282 #283 #284 #285 #286 #287 #288 #289 #290 #291 #292 #293 #294 #295 #296 #297 #298 #299 #300 #301 #302 #303 #304 #305 #306 #307 #308 #309 #310 #311 #312 #313 #314 #315 #316 #317 #318 #319 #320 #321 #322 #323 #324 #325 #326 #327 #328 #329 #330 #331 #332 #333 #334 #335 #336 #337 #338 #339 #340 #341 #342 #343 #344 #345 #346 #347 #348 #349 #350 #351 #352 #353 #354 #355 #356 #357 #358 #359 #360 #361 #362 #363 #364 #365 #366 #367 #368 #369 #370 #371 #372 #373 #374 #375 #376 #377 #378 #379 #380 #381 #382 #383 #384 #385 #386 #387 #388 #389 #390 #391 #392 #393 #394 #395 #396 #397 #398 #399 #400 #401 #402 #403 #404 #405 #406 #407 #408 #409 #410 #411 #412 #413 #414 #415 #416 #417 #418 #419 #420 #421 #422 #423 #424 #425 #426 #427 #428 #429 #430 #431 #432 #433 #434 #435 #436 #437 #438 #439 #440 #441 #442 #443 #444 #445 #446 #447 #448 #449 #450 #451 #452 #453 #454 #455 #456 #457 #458 #459 #460 #461 #462 #463 #464 #465 #466 #467 #468 #469 #470 #471 #472 #473 #474 #475 #476 #477 #478 #479 #480 #481 #482 #483 #484 #485 #486 #487 #488 #489 #490 #491 #492 #493 #494 #495 #496 #497 #498 #499 #500 #501 #502 #503 #504 #505 #506 #507 #508 #509 #510 #511 #512 #513 #514 #515 #516 #517 #518 #519 #520 #521 #522 #523 #524 #525 #526 #527 #528 #529 #530 #531 #532 #533 #534 #535 #536 #537 #538 #539 #540 #541 #542 #543 #544 #545 #546 #547 #548 #549 #550 #551 #552 #553 #554 #555 #556 #557 #558 #559 #560 #561 #562 #563 #564 #565 #566 #567 #568 #569 #570 #571 #572 #573 #574 #575 #576 #577 #578 #579 #580 #581 #582 #583 #584 #585 #586 #587 #588 #589 #590 #591 #592 #593 #594 #595 #596 #597 #598 #599 #600 #601 #602 #603 #604 #605 #606 #607 #608 #609 #610 #611 #612 #613 #614 #615 #616 #617 #618 #619 #620 #621 #622 #623 #624 #625 #626 #627 #628 #629 #630 #631 #632 #633 #634 #635 #636 #637 #638 #639 #640 #641 #642 #643 #644 #645 #646 #647 #648 #649 #650 #651 #652 #653 #654 #655 #656 #657 #658 #659 #660 #661 #662 #663 #664 #665 #666 #667 #668 #669 #670 #671 #672 #673 #674 #675 #676 #677 #678 #679 #680 #681 #682 #683 #684 #685 #686 #687 #688 #689 #690 #691 #692 #693 #694 #695 #696 #697 #698 #699 #700 #701 #702 #703 #704 #705 #706 #707 #708 #709 #710 #711 #712 #713 #714 #715 #716 #717 #718 #719 #720 #721 #722 #723 #724 #725 #726 #727 #728 #729 #730 #731 #732 #733 #734 #735 #736 #737 #738 #739 #740 #741 #742 #743 #744 #745 #746 #747 #748 #749 #750 #751 #752 #753 #754 #755 #756 #757 #758 #759 #760 #761 #762 #763 #764 #765 #766 #767 #768 #769 #770 #771 #772 #773 #774 #775 #776 #777 #778 #779 #780 #781 #782 #783 #784 #785 #786 #787 #788 #789 #790 #791 #792 #793 #794 #795 #796 #797 #798 #799 #800 #801 #802 #803 #804 #805 #806 #807 #808 #809 #810 #811 #812 #813 #814 #815 #816 #817 #818 #819 #820 #821 #822 #823 #824 #825 #826 #827 #828 #829 #830 #831 #832 #833 #834 #835 #836 #837 #838 #839 #840 #841 #842 #843 #844 #845 #846 #847 #848 #849 #850 #851 #852 #853 #854 #855 #856 #857 #858 #859 #860 #861 #862 #863 #864 #865 #866 #867 #868 #869 #870 #871 #872 #873 #874 #875 #876 #877 #878 #879 #880 #881 #882 #883 #884 #885 #886 #887 #888 #889 #890 #891 #892 #893 #894 #895 #896 #897 #898 #899 #900 #901 #902 #903 #904 #905 #906 #907 #908 #909 #910 #911 #912 #913 #914 #915 #916 #917 #918 #919 #920 #921 #922 #923 #924 #925 #926 #927 #928 #929 #930 #931 #932 #933 #934 #935 #936 #937 #938 #939 #940 #941 #942 #943 #944 #945 #946 #947 #948 #949 #950 #951 #952 #953 #954 #955 #956 #957 #958 #959 #960 #961 #962 #963 #964 #965 #966 #967 #968 #969 #970 #971 #972 #973 #974 #975 #976 #977 #978 #979 #980 #981 #982 #983 #984 #985 #986 #987 #988 #989 #990 #991 #992 #993 #994 #995 #996 #997 #998 #999 #1000

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Tracy Hillard		Company:	XTO Energy, Inc
Address: 601 N Marientfeld Street, Suite 400		Attn:	Colton Brown
City: Midland	State: TX Zip: 79701	Address: 3104 E Greene St	
Phone #: 575-937-3906	Fax #:	City:	Carlsbad
Project #: 03C1558504	Project Owner:	State:	NM Zip: 88220
Project Name: PLU South Pond		Phone #:	
Project Location: 32.10618, -103.85288		Fax #:	
Sampler Name: Evan Roe			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HSD 935	CS11C	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1329	✓	✓	✓
	CS11L	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1333	✓	✓	✓
	CS11Z	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1337	✓	✓	✓
	CS11A	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1342	✓	✓	✓
	CS11B	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1405	✓	✓	✓
	CS11C	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1410	✓	✓	✓
	CS11D	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1412	✓	✓	✓
	CS11E	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1414	✓	✓	✓
	CS11F	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1416	✓	✓	✓
	CS11G	0.5	C	✓	✓	✓	✓	✓	✓	✓	2/14/25	1418	✓	✓	✓

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Relinquished By: Even An Date: 2/17/25 Time: 1930

Received By: Jawana Date: 2/17/25 Time: 1930

Observed Temp.: 8.1 Corrected Temp.: 8.4

Sample Condition: Intact Cool Yes No

Checked By: AD

Turnaround Time: Standard Rush Bacteria (only) Cool Intact Yes No

Thermometer ID: 449 #10.3C Correction Factor: 0.5C

Remarks: BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfield Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: Project Owner: XTO Energy
 Project #: 03C1558504 Project Location: 32.10618, -103.85288
 Project Name: PLU South Pond
 Sampler Name: Evan Roe

BILL TO
 P.O. #: Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #: Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H50935	LS120	0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25	1421	✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓
		0.5	C		✓	✓	✓	✓	✓	✓	✓	2/14/25		✓	✓	✓

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Erica Ren*
 Date: 2/17/25
 Time: 1:30
 Received By: *Thomas [Signature]*
 Date: _____
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp.: 2.1
 Corrected Temp.: 8.4
 Sample Condition: Cool Intact
 Checked By: *[Signature]*
 Turnaround Time: Standard Rush
 Thermometer ID: #140
 Correction Factor: +0.3°C
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp.: _____

REMARKS: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: Bbell@ensolum.com, Tmorrissey@ensolum.com, THillard@ensolum.com



APPENDIX C

Sampling Plan,
Dated November 20, 2024



November 20, 2024

New Mexico Oil Conservation Division

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

**Re: Sampling Plan
PLU South Frac Pond
Incident Number nAPP2405971517
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Sampling Plan (Work Plan)* to document the assessment, delineation and soil sampling activities completed to date and propose a work plan to complete confirmation soil sampling in the release extent at the PLU South Pond (Site). The purpose of the remediation activities was to determine the presence or absence of impacted soil resulting from a produced water release at the Site. The following *Work Plan* proposes to complete confirmation soil sampling to ensure no impacted exists as a result of the release.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 26, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10618°, -103.85288°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 14, 2024, a water transfer polyline failure resulted in the release of 35 barrels (bbls) of produced water onto a 2-track lease road, Right-of-Way (ROW), and adjacent pasture. No fluids were recovered. XTO submitted a Notification of Release (NOR) and an Initial C-141 Application (C-141) on February 28, 2024. The release was assigned Incident Number nAPP2405971517.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on data from a soil boring drilled to investigate regional groundwater depth. In February 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-4498) was completed approximately 0.5 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix B.

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

Due to the proximity of the nearest significant watercourse to the Site, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 14, 2024, XTO personnel mapped the release extent utilizing a Global Positioning System (GPS) unit which is depicted on Figure 2.

On August 16, 2024, XTO submitted the following extension request, for several incidents, to the NMOCD:

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

The extension request was approved for one Incident Number on the list. All others, including Incident Number nAPP2405971517 were denied on August 19, 2024, however no immediate response was requested and no submittal deadline was assigned.

On September 3, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141, internal reports and visual observations. Two samples were collected within the release extent to evaluate the presence or absence of impacts to the soil. The samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results suggested the samples did not contain elevated VOC or chloride concentrations, and these samples were not submitted to a laboratory for analysis.

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

On October 10 and November 6, 2024, delineation boreholes BH01 through BH08 were advanced via hand auger and backhoe to assess the vertical extent of the release. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 4 feet bgs. The depths of boreholes BH01 through BH06 were limited by backhoe refusal. All soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

All 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

The laboratory analytical results for all delineation soil samples indicated no BTEX or TPH were detected in any sample. Chloride concentrations ranged from non-detect to 160 mg/kg. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate the absence of impacted soil and XTO proposes to collect 5-point confirmation soil samples of the release extent to confirm the absence of impacted soil within the release extent. Due to the size of the release and lack of impact identified by delineation, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes five-point composite samples to be collected at a sampling frequency of no more than 400 square feet within the area of the release extent that is greater than 300 feet from the intermittent dry wash. The release extent within the 300-foot radius of the intermittent dry wash will be collected at a sampling frequency of no more than 200 square feet. The proposed sampling frequency would reduce the total amount of samples from approximately 119 samples to approximately 73 samples. The soil samples will be handled as described above and analyzed for all COCs. The 200 square foot sampling grid and the proposed sampling grid are depicted in Figure 3a and Figure 3b for comparison.

XTO will complete the soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

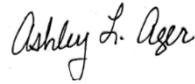
If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Ashley Ager, PG, MS
Program Director

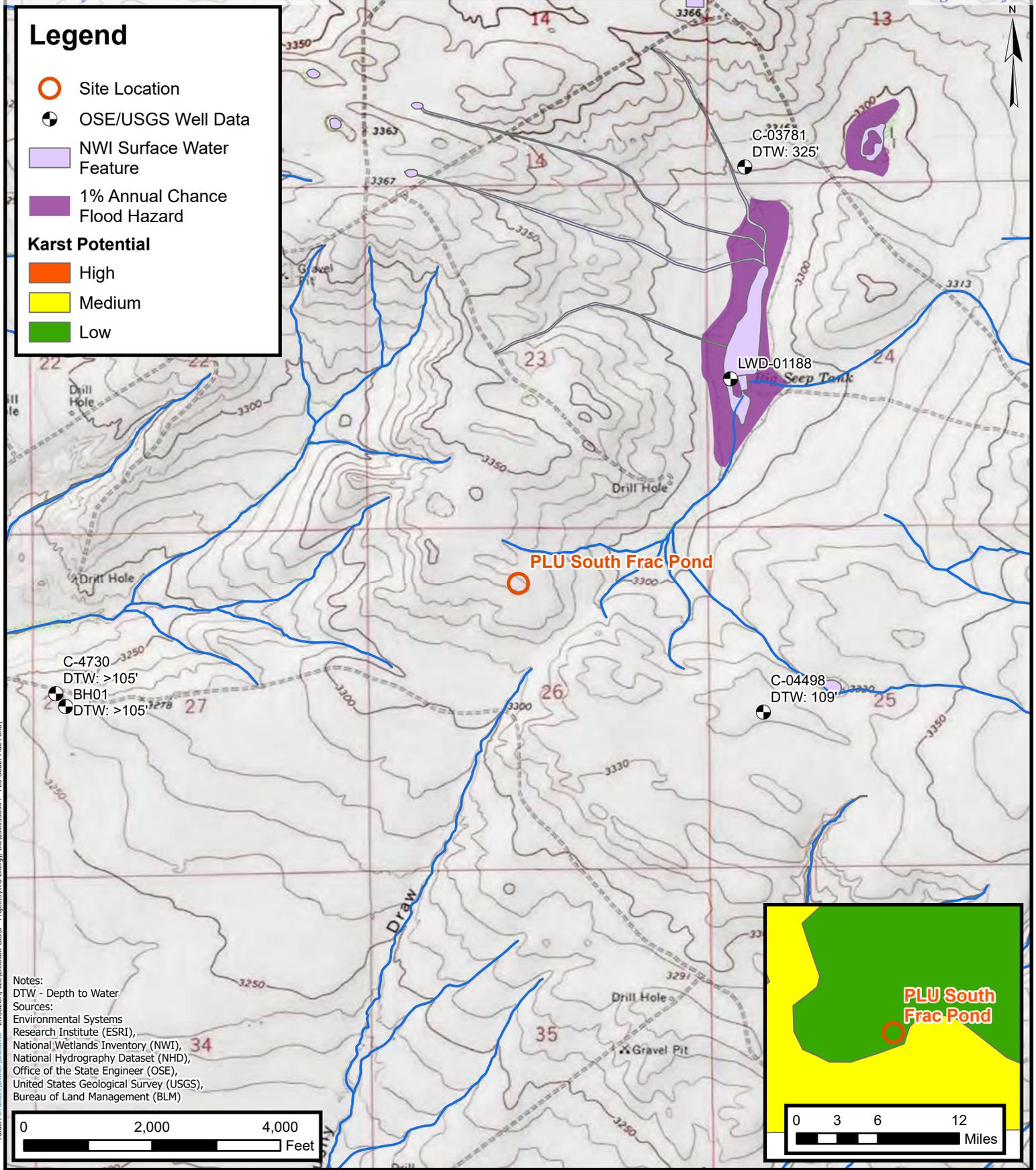
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3a	200 Square Foot Sampling Grid
Figure 3b	Proposed Sampling Grid
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Site Receptor Map
XTO Energy, Inc
PLU South Frac Pond
Incident Number: nAPP2405971517
Unit C, Sec 26, T25S, R30E
Eddy County, New Mexico

FIGURE
1



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Electric Line
- Release Extent

Notes:
 Sample ID @ Depth Below Ground Surface.
 Sources: Environmental Systems Research Institute (ESRI),
 Bing, Enterprise Products Operating LLC

Delineation Soil Sample Locations

XTO Energy, Inc
 PLU South Frac Pond
 Incident Number: nAPP2405971517
 Unit C, Sec 26, T25S, R30E
 Eddy County, New Mexico

FIGURE

2

Project Number: 03C1558504





Legend

-  Electric Utility Line
-  Release Extent
-  200 Sqft Sampling Grid

Sources: Environmental Systems Research Institute (ESRI), Bing, Enterprise Products Operating LLC

200 Square Foot Sampling Grid
 XTO Energy, Inc
 PLU South Frac Pond
 Incident Number: nAPP2405971517
 Unit C, Sec 26, T25S, R30E
 Eddy County, New Mexico

FIGURE
3a
 Project Number: 03C1558504



ENSOLUM
 Environmental, Engineering and Hydrogeologic Consultants

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Legend

-  Electric Utility Line
-  National Hydrography Dataset (NHD) Stream/River
-  400 Sqft Sampling Grid
-  200 Sqft Sampling Grid
-  300 Ft Buffer - NHD Stream/River
-  Release Extent

Sources: Environmental Systems Research Institute (ESRI), Bing, Enterprise Products Operating LLC

Proposed Sampling Grid

XTO Energy, Inc
 PLU South Frac Pond
 Incident Number: nAPP2405971517
 Unit C, Sec 26, T25S, R30E
 Eddy County, New Mexico

FIGURE

3b

Project Number: 03C1558504



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TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU South Frac Pond
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										
BH01	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH01A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH02	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH05A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH06	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH06A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH07	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH07A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH07	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH07B	11/06/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH07C	11/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH08	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH08A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH08	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH08B	11/06/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH08C	11/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32°	MINUTES 6'	SECONDS 1.96"	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	-103°	50'	26.19"		W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 02/24/2021		DRILLING ENDED 02/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

USE DT: MAR 11 2021 PM 4:28

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO. C-4498		POD NO. 1		TRN NO. 682528			
LOCATION 132 T25S R30E Sec 25				WELL TAG ID NO. NA		PAGE 1 OF 2	

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 682528
File Nbr: C 04498
Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY
WSP USA
3300 NORTH A STREET
BLDG 1 #222
MIDLAND, TX 79705

Greetings:

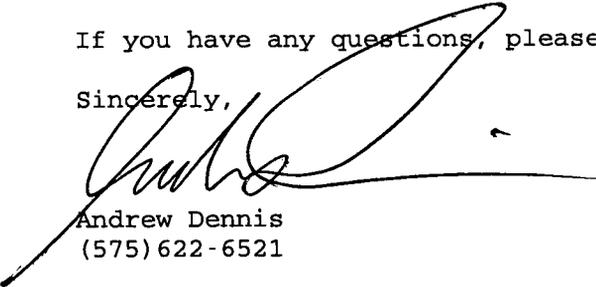
The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Sincerely,


Andrew Dennis
(575) 622-6521

drywell



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
PLU South Frac Pond
nAPP2405971517



Photograph: 1 Date: 2/15/2024
Description: Soil staining in release footprint
View: East

Photograph: 2 Date: 10/10/2024
Description: Delineation activities
View: Northeast



Photograph: 3 Date: 11/6/2024
Description: Delineation activities
View: Southwest

Photograph: 4 Date: 11/6/2024
Description: Delineation activities
View: West



APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: BH01		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106213, -103.852898					Hole Diameter: 24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.2	N	BH01	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.2	N	BH01A	1	1		
Drv	<168	0.1	N	BH01B	2	2	CCHE	(1-2') CALICHE, tan, trace sand
Total Depth @ 2 feet - backhoe refusal								

					Sample Name: BH02		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106199, -103.851855					Hole Diameter: 24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	0.3	N	BH02	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.1	N	BH02A	1	1		
Dry	<168	0.0	N	BH02	2	2	SP	(1-2') SAND, tan/white, trace silt, trace clay, trace caliche
Total Depth @ 2 feet - backhoe refusal								

					Sample Name: BH03		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106212, -103.850979					Hole Diameter: 24"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	<168	0.1	N	BH03	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.3	N	BH03A	1	1		
Dry	<168	0.0	N	BH03	2	2	SP	(1-2') SAND, tan/white, trace silt, trace clay, trace caliche
Total Depth @ 2 feet - backhoe refusal								

					Sample Name: BH04		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106207, -103.850373					Hole Diameter: 24"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.7	N	BH04	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.1	N	BH04A	1	1		
Total Depth @ 1-foot bgs - backhoe refusal								

					Sample Name: BH05		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106218, -103.849742					Hole Diameter: 24"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.0	N	BH05	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.8	N	BH05A	1	1		
Total Depth @ 1-foot bgs - backhoe refusal								

					Sample Name: BH06		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106132, -103.849542					Hole Diameter: 24"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.4	N	BH06	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.5	N	BH06A	1	1		
Total Depth @ 1-foot bgs - backhoe refusal								

					Sample Name: BH07		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106205, -103.848783					Hole Diameter: 24"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<16	0.3	N	BH07	0.5	0	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand (0-4') SAND, tan/white, trace silt, trace clay, trace caliche
Drv	<168	0.7	N	BH07A	1	0.5	SC	
Drv	<168	0.0	N	BH07	2	1	SP	
Drv	240	0.0	N	BH07B	3	2	SP	
Drv	168	0.0	N	BH07C	4	3	SP	
						Total Depth @ 4 feet - backhoe refusal		

					Sample Name: BH08		Date: 11/6/2024	
					Site Name: PLU South Pond			
					Incident Number: nAPP2405971517			
					Job Number: 03C1558504			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SB/AV		Method: Hand Auger/Backhoe	
Coordinates: 32.106195, -103.847950					Hole Diameter: 24"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
0								
Dry	<168	0.3	N	BH08	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.3	N	BH08A	1	1		
Dry	<168	0.0	N	BH08	2	2	SP	(0-3') SAND, tan/brown, trace silt, trace clay
Dry	<168	0.0	N	BH08B	3	3		(3-4') SAND, tan/brown, trace caliche
Dry	<168	0.0	N	BH08C	4	4		
Total Depth @ 4 feet - backhoe refusal								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

October 17, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 9:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 01 0.5' (H246200-01)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26	QR-03	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02	QR-03	
Total BTEX	<0.300	0.300	10/15/2024	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	48.0	16.0	10/14/2024	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	10/14/2024	ND	220	110	200	4.83		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 01A 1' (H246200-02)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2024	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	10/14/2024	ND	220	110	200	4.83		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 02 0.5' (H246200-03)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/14/2024	ND	220	110	200	4.83		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 02A 1' (H246200-04)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/14/2024	ND	220	110	200	4.83		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 03 0.5' (H246200-05)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/14/2024	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	10/14/2024	ND	220	110	200	4.83		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 03A 1' (H246200-06)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	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	<16.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 04 0.5' (H246200-07)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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	<16.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 04A 1' (H246200-08)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 05 0.5' (H246200-09)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 05A 1' (H246200-10)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 06 0.5' (H246200-11)

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	10/15/2024	ND	2.08	104	2.00	0.973	
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02	
Total BTEX	<0.300	0.300	10/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 06A 1' (H246200-12)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 07 0.5' (H246200-13)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 07A 1' (H246200-14)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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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:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 08 0.5' (H246200-15)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO		

Sample ID: BH 08A 1' (H246200-16)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2024	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	10/14/2024	ND	215	108	200	6.23		
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24		
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

page 1 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC
 Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575-393-3906 Fax #:
 Project #: 030558504 Project Owner:
 Project Name: PV South Road
 Project Location:
 Sampler Name: Sherril Brooks
 P.O. #:
 Company: XTO Energy
 Attn: Cathy Kason
 Address: 3104 E Greasht,
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 MATRIX: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :
 PRESERVY: ACID/BASE: ICE / COOL OTHER :
 SAMPLING: DATE TIME

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERVY	SAMPLING	DATE	TIME	Benzene	BTEX	TOT	Chloride
H246800	BHT01	0.5'	G	1	X	X	X	10:23	10:23	X	X	X	X
	BHT01A	1'						10:25	10:25	X	X	X	X
	BHT02	0.5'						12:29	12:29	X	X	X	X
	BHT03	0.5'						12:42	12:42	X	X	X	X
	BHT04	1'						13:07	13:07	X	X	X	X
	BHT05	0.5'						13:34	13:34	X	X	X	X
	BHT06	1'						14:04	14:04	X	X	X	X
	BHT07	0.5'						14:11	14:11	X	X	X	X

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Relinquished By: Michele Bruhl Received By: AK
 Date: 10-11-24 Received Date: 10-11-29
 Time: 7:18 AM Received Time: 10:50 AM
 Remarks: Hillard@ensolium.com, kthomass@ensolium.com

Delivered By: (Circle One) Specimen
 Sampler - UPS - Bus - Other: Specimen
 Observed Temp. °C: 1.32 Sample Condition: Cool Intact
 Corrected Temp. °C: 0.72 Yes No
 Checked By: (Initials) SR
 Turnaround Time: Standard Bacteria (only) Sample Condition: Cool Intact
 Thermometer ID #113 Yes No
 Correction Factor: 0.5°C Yes No
 Corrected Temp. °C: 0.17

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



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

November 08, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

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:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 02 2' (H246791-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	16.0	16.0	11/08/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 03 2' (H246791-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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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:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 07 2' (H246791-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/08/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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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:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 07B 3' (H246791-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 07C 4' (H246791-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 62.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 08 2' (H246791-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 62.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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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:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 08B 3' (H246791-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

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

Received:	11/07/2024	Sampling Date:	11/06/2024
Reported:	11/08/2024	Sampling Type:	Soil
Project Name:	PLU SOUTH POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558504	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10618, -103.85288		

Sample ID: BH 08C 4' (H246791-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: Tracy Hillard	Company: XTO Energy Inc.		
Address: 3122 National Parks Hwy	Attn: Colton Brown		
City: Carlsbad	Address: 3104 E. Greene St.		
State: NM	City: Carlsbad		
Zip: 88220	State: NM		
Phone #: 989-854-0852	Zip: 88220		
Fax #:			
Project #: 03C1558504	Project Owner: XTO		
Project Name: PLU South Pond			
Project Location: 32.10618, -103.85288			
Sample Name: Azad Vojdani			
FOR LAB USE ONLY			

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H246791	BH02	2	G	1								11-06-24	1223	✓	✓	✓
	BH03	2	G	1									1250	✓	✓	✓
	BH04	2	G	1									1411	✓	✓	✓
	BH07B	3	G	1									1413	✓	✓	✓
	BH07C	4	G	1									1420	✓	✓	✓
	BH08	2	G	1									1424	✓	✓	✓
	BH085	3	G	1									1426	✓	✓	✓
	BH08C	4	G	1									1430	✓	✓	✓

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Relinquished By: [Signature] **Date:** 11/06/24

Received By: [Signature] **Date:** 11/06/24

Relinquished By: [Signature] **Date:** 11/06/24

Received By: [Signature] **Date:** 11/06/24

Delivered By: (Circle One) Observed Temp. °C: 8.3 Corrected Temp. °C: 1.9

Sampler: UPS Bus Other

Sample Condition: Intact Cool Yes No

Checked By: [Signature]

Remarks: Turround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No

Thermometer ID: #449 Rush 24 TK Corrected Temp. °C

Corrosion Factor: 0.5°C

Cost center: 1081711001 Incident #: NAPP2405971517

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address: Avojdani@ensolum.com, TMorrissey@ensolum.com, bebellie@ensolum.com

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

QUESTIONS

Action 444869

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405971517
Incident Name	NAPP2405971517 PLU SOUTH FRAC POND @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU South Frac Pond
Date Release Discovered	02/14/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 35 BBL Recovered: 0 BBL Lost: 35 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Fluid released from water transfer surface poly line.

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QUESTIONS, Page 2

Action 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/20/2024
--	--

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QUESTIONS, Page 3

Action 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1/2 and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	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)	160
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	10/10/2024
On what date will (or did) the final sampling or liner inspection occur	02/14/2025
On what date will (or was) the remediation complete(d)	02/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	23700
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	23700
What is the estimated volume (in cubic yards) that will be remediated	0

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 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No impacts identified

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 03/24/2025
--	--

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 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	428945
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/10/2025
What was the (estimated) number of samples that were to be gathered	120
What was the sampling surface area in square feet	24000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	23700
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	23700
What was the total volume (in cubic yards) reclaimed	0

Summarize any additional remediation activities not included by answers (above)	Confirmation soil sampling activities were conducted at the Site in accordance with the Work Plan to address the February 2024 produced water release. Laboratory analytical results for all confirmation soil samples collected from the release extent indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Based on the soil sample laboratory analytical results, no further remediation is required. Confirmation soil sampling activities have confirmed the absence of impacted soil. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2405971517.
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The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 03/24/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 444869

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 444869

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 444869
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2405971517 PLU SOUTH FRAC POND, thank you. This Remediation Closure Report is approved.	3/24/2025