

September 10, 2024

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

Re: Remediation Work Plan

Poker Lake Unit 22 DTD Pad D Incident Number NAPP2411631990 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) to document the site assessment, delineation and soil sampling activities completed to date and propose a work plan to address waste-containing soil identified at the Poker Lake Unit 22 DTD Pad D (Site). The purpose of the remediation activities was to determine the presence or absence of impacted and/or waste-containing soil resulting from a produced water release at the Site. The following *Work Plan* proposes to confirm depth to groundwater via temporary soil boring and remove waste-containing soil identified within the release extent.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 22, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20997°, -103.86489°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 9, 2024, a pump failure resulted in the release of 18 barrels (bbls) of produced water into a temporary lined containment area, onto the pad surface, and into the adjacent pasture area. No fluids were recovered. XTO submitted an Initial C-141 Application (C-141) on April 25, 2024. The release was assigned Incident Number NAPP2411631990.

# 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 and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On March 26, 1959, a USGS groundwater monitoring well (USGS 321203103511801) was measured and recorded with a depth to groundwater as 423.1 feet bgs. The total depth of the well is 474 feet bgs. The location of the well is approximately 0.83 miles southeast of the release and is depicted on Figure 1. The Well Record and Log is included in Appendix A.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,873 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

#### SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 9, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided from XTO and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

On April 25, 2024, Ensolum returned to the Site to take assessment samples from within the release. Five delineation soil samples (SS01 through SS05) were collected from a depth of 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

On May 21 and 22, 2024, Ensolum personnel returned to the site to oversee delineation activities. Delineation boreholes BH01 through BH04 and potholes PH01 through PH05 were advanced via hand auger and backhoe to assess the vertical extent of the release to a maximum depth of 1-foot bgs. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 1-foot bgs. Delineation soil sample PH04 was taken at the point of release below the removed temporary lined containment. Additional delineation soil samples (SS06 through SS11) were taken surrounding the release to confirm the lateral extent of the release. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

Based on field screenings, no impacted or waste-containing soil was identified in the pasture areas. Vegetation in this area appears to be healthy and not impacted by the release. In order to confirm the absense of impacted or waste-containing soil, twenty-three 5-point composite confirmation soil samples were taken from the pasture area that represented no more than 200 square feet of the release extent in an approximate 4,587 square foot area. The 5-point composite samples were collected by placing five



XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06, and FS08 through FS24 were collected at a depth of 0.5 feet bgs. Please note FS07 was inadvertantly skipped in the sampling nomenclature. The soil samples were field screened for VOCs and chloride and mapped with a handheld GPS unit. The confirmation soil sample locations are depicted on Figure 3.

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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated all COCs were compliant with the Closure Criteria. All COC concentrations for terminal soil samples of the delineation boreholes and potholes were in compliance with the Closure Criteria and reclamation requirement, successfully defining the vertical extent of the release. All COC concentrations for the delineation soil samples collected outside the release extent met Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release. Laboratory analytical results for all COC concentrations for composite soil samples FS01 through FS24 were in compliance with the strictest Table 1 Closure Criteria, verifying the absence of impacted or waste-containing soil in the pasture area. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

In order to confirm depth to groundwater is greater than 100 feet bgs at the Site, XTO proposes to advance a soil boring to a depth of 105 feet bgs. The soil boring will be located within 0.5 miles of the Site and a field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for equilibration of groundwater levels within the temporary boring casing. After the 72-hour waiting period, depth to groundwater will be assessed and the soil boring will be backfilled following New Mexico Office of the State Engineer (NMOSE) approved procedures. A well record or soil boring log will be included in the follow-up Closure Report.

The delineation soil sampling results indicate soil containing elevated chloride concentrations exist on pad across an approximate 18,800 square foot area and extends to depths ranging from 0.5 feet to 1-foot bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of waste-containing soil to a depth of 1-foot bgs. Excavation will proceed laterally
  until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria
  and reclamation requirement.
- The area below the temporary lined containment that has been removed will be composite sampled to confirm the absence of waste-containing soil. If waste-containing soil is located, it will be included in the excavation area increasing the total area by 4,335 square feet and total volume by 160 cubic yards.
- Due to the estimated size of the excavation, 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 400 square feet along the excavation floor and a sampling frequency of



XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

200 square feet along the excavation sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 118 samples (200 square feet) to approximately 62 samples. The soil samples will be handled as described above and analyzed for all COCs. The 200 square foot and 400 square foot sampling grids are depicted in Figure 4a and Figure 4b, respectively, based on the proposed excavation extent.

- An estimated 700 cubic yards of waste-containing soil will be excavated and disposed of at the R360 disposal facility in Hobbs, New Mexico.
- The excavation will be backfilled with locally procured material and recontoured to match preexisting conditions.
- Vegetation in the pasture area of the release will continue to be monitored and may be re-seeded as necessary.

XTO plans to drill the depth to water boring in November 2024, once the schedule is confirmed with the licensed drillers. XTO will complete the excavation and 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.

Ashley L. ager

**Program Director** 

Ashley Ager, PG, MS

Sincerely, **Ensolum, LLC** 

Tracy Hillard Staff Engineer

CC:

Tought Hard

Amy Ruth, XTO

Amanda Garcia, XTO

BLM

#### Appendices:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations

Figure 4a Proposed Excavation Extent with 200 Square Foot Sampling Grid Figure 4b Proposed Excavation Extent with 400 Square Foot Sampling Grid

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

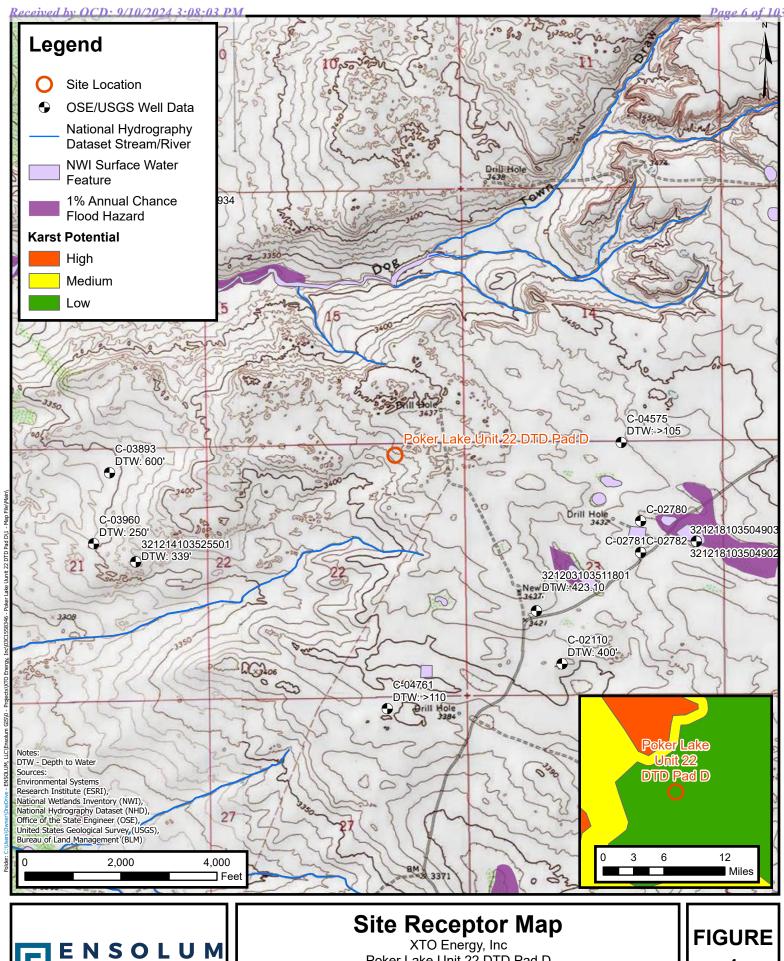
Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation





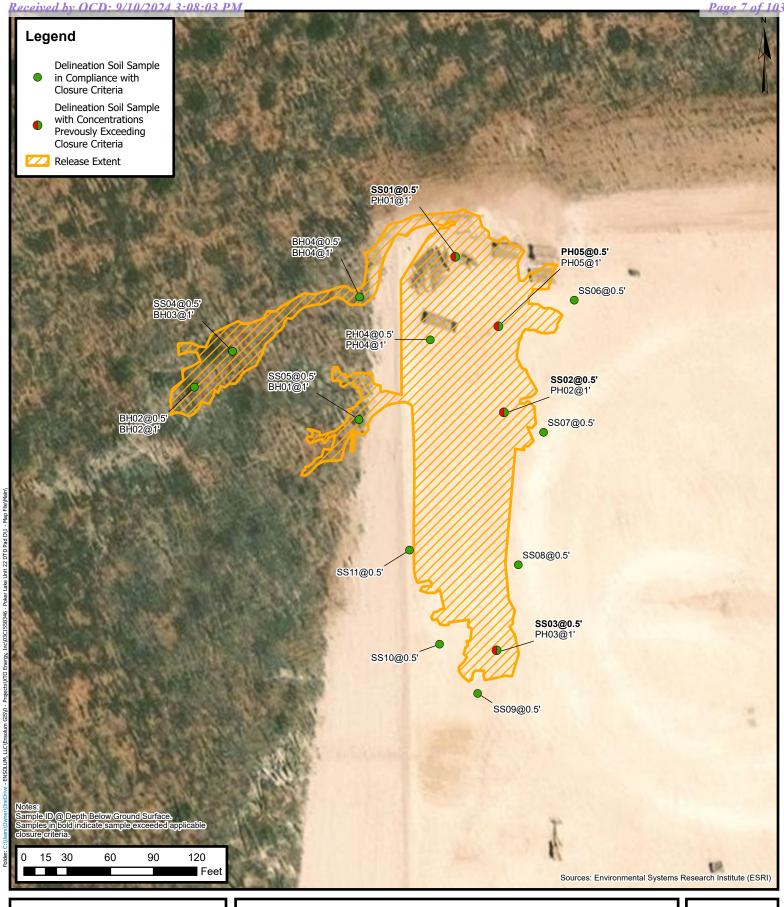
**FIGURES** 



Environmental, Engineering and Hydrogeologic Consultants

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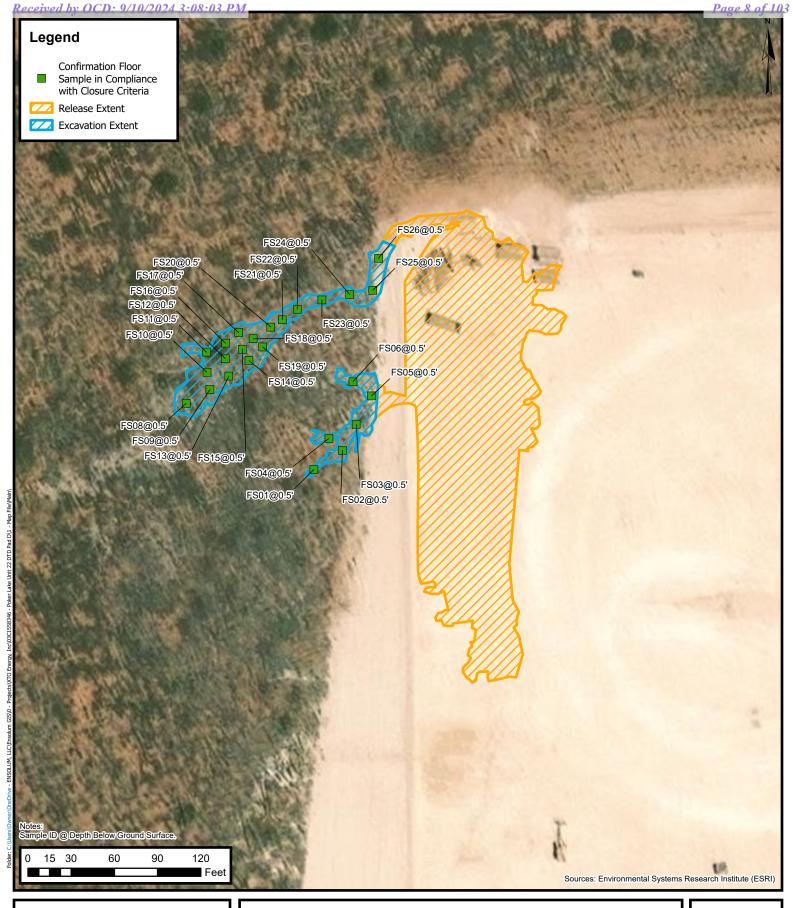
Poker Lake Unit 22 DTD Pad D Incident Number: NAPP2411631990 Unit B, Sec 22, T24S, R30E Eddy County, New Mexico





# **Delineation Soil Sample Locations**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D Incident Number: nAPP2411631990 Unit B, Sec 22, T24S, R30E Eddy County, New Mexico FIGURE 2

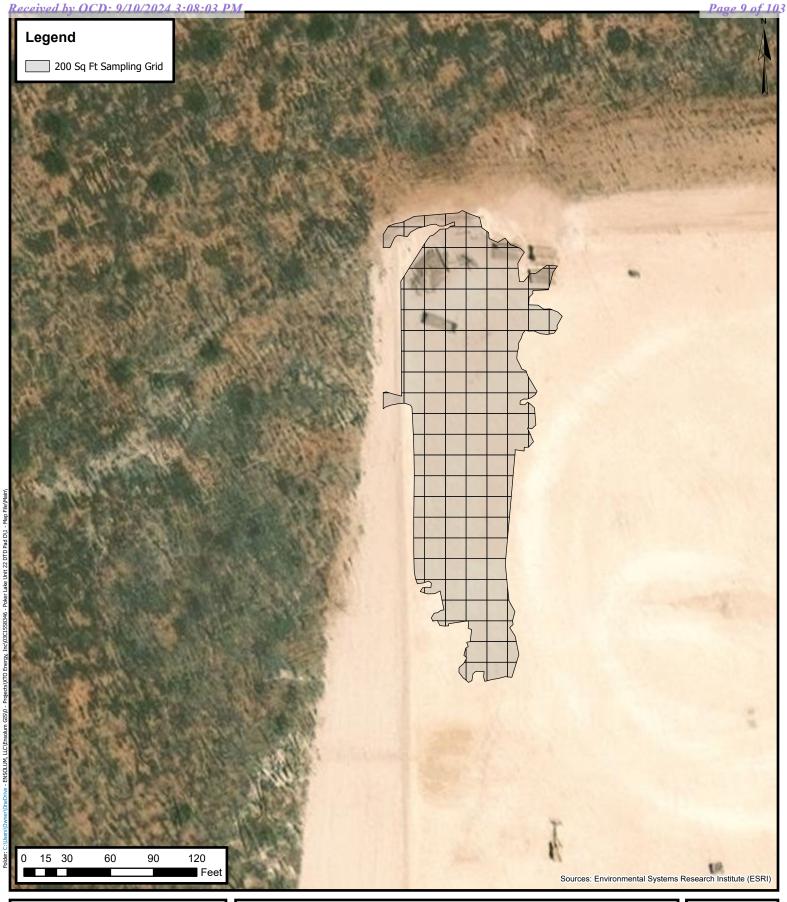




# **Confirmation Soil Sample Locations**

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 3

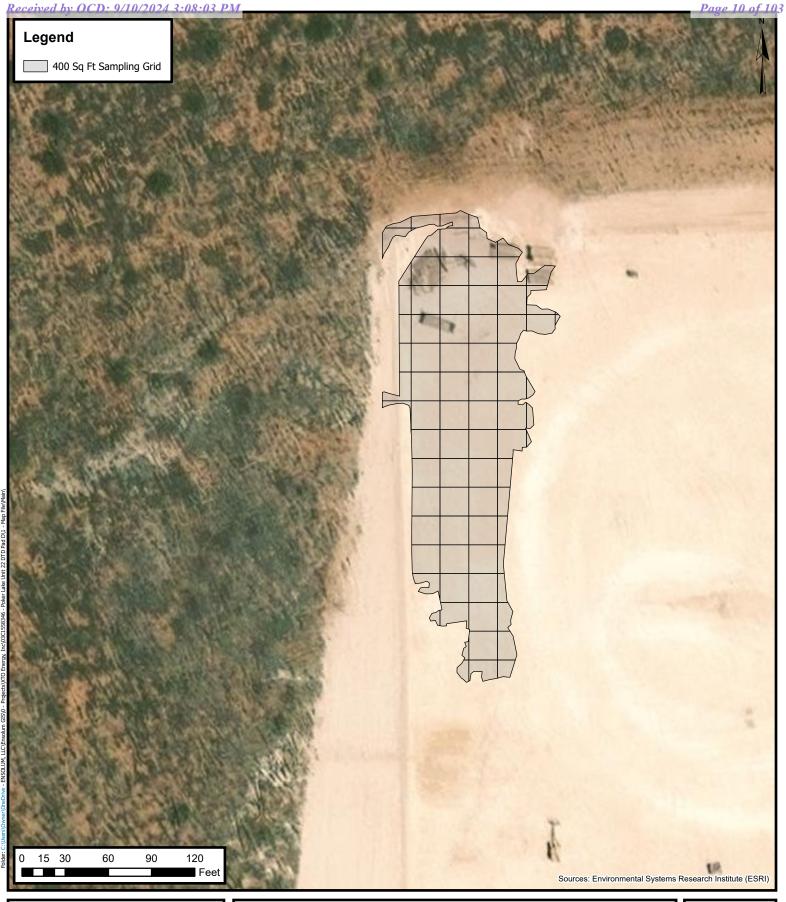




Proposed Excavation Extent with 200 Square Foot Sampling Grid

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 4a





Proposed Excavation Extent with 400 Square Foot Sampling Grid

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 4b

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**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD Pad D 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 C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,360
PH01	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	04/26/2024	0.5	<0.050	<0.300	<10.0	34.1	<10.0	34.1	34.1	1,300
PH02	05/22/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS03	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
PH03	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS04	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH03	05/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS05	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH01	05/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS06	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS07	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS08	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS09	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS10	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS11	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH02	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH02	05/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH04	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
BH04	05/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH04	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
PH04	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
PH05	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,260
PH05	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
				Confi	irmation Soil Sa	imples				
FS01	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS04	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

Ensolum



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD Pad D 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)		NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS05	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS06	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS08	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS09	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS10	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS11	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS12	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS14	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS15	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS16	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS17	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS18	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS19	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS20	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS21	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS22	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS23	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS24	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

#### 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

Ensolum 2 of 2



**APPENDIX A** 

Referenced Well Records



**USGS Home Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS Water Resources** 



#### Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321203103511801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321203103511801 24S.30E.23.3124143

Eddy County, New Mexico Latitude 32°12'03", Longitude 103°51'18" NAD27

Land-surface elevation 3,423 feet above NAVD88

The depth of the well is 474 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### **Output formats**

Table of dat	<u>ta</u>									
<u>Tab-separat</u>	ted data									
Graph of da	<u>ata</u>									
Reselect pe	riod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1959-03-2	6	D	62610		2998.18	NGVD29	1	Ž	2	
1959-03-2	6	D	62611		2999.90	NAVD88	1	Ž	7	
1959-03-2	6	D	72019	423.10			1	Ž	2	

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined

Section	Code	Description
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments Help Data Tips

Explanation of terms

Subscribe for system changes

FOIA

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Privacy

Policies and Notices

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-07-03 12:20:34 EDT

0.39 0.37 nadww02

Accessibility





**APPENDIX B** 

Photographic Log



# **Photographic Log**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D NAPP2411631990





Photograph: 1 Date: 4/9/2024

Description: Soil staining in release footprint

View: North

Photograph: 2 Date: 4/25/2024

Description: Delineation sampling activities

View: Southwest





Photograph: 3 Date: 5/21/2024

Description: Confirmation sampling activities

View: Southeast

Photograph: 4 Date:5/22/2024

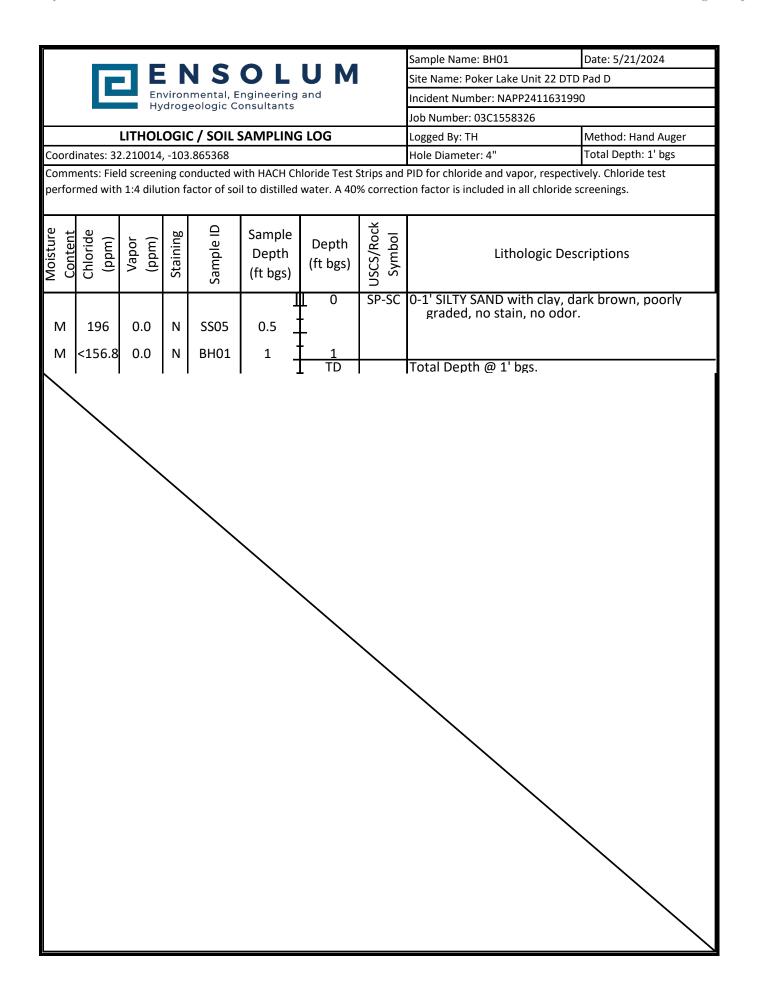
Description: Delineation activities

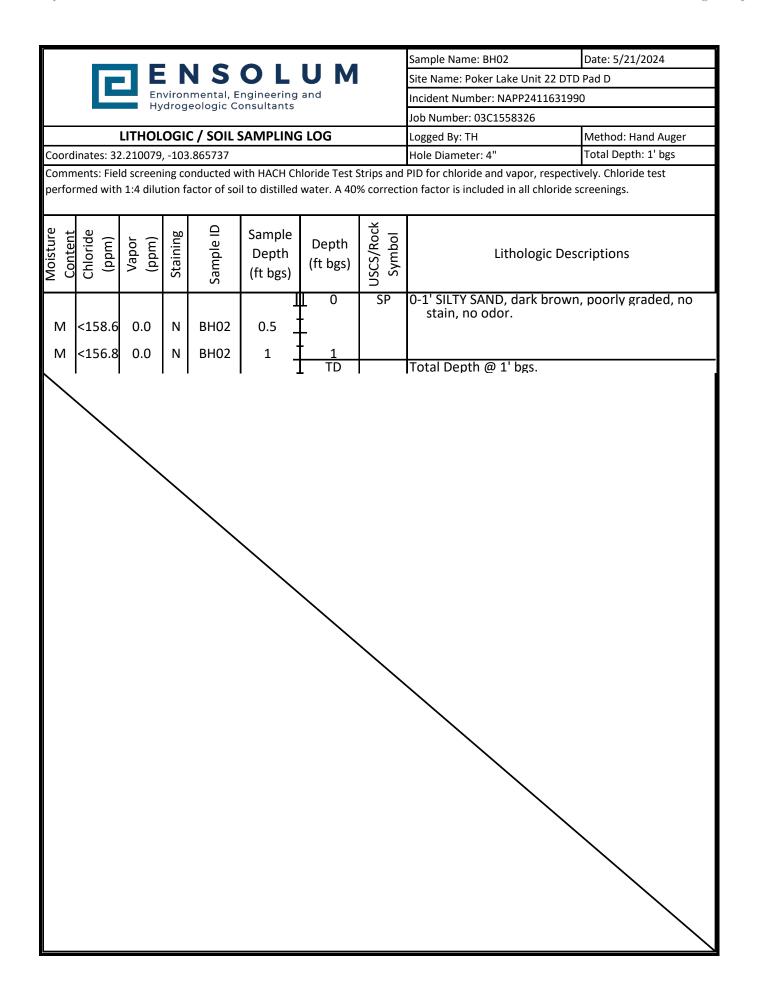
View: Northwest

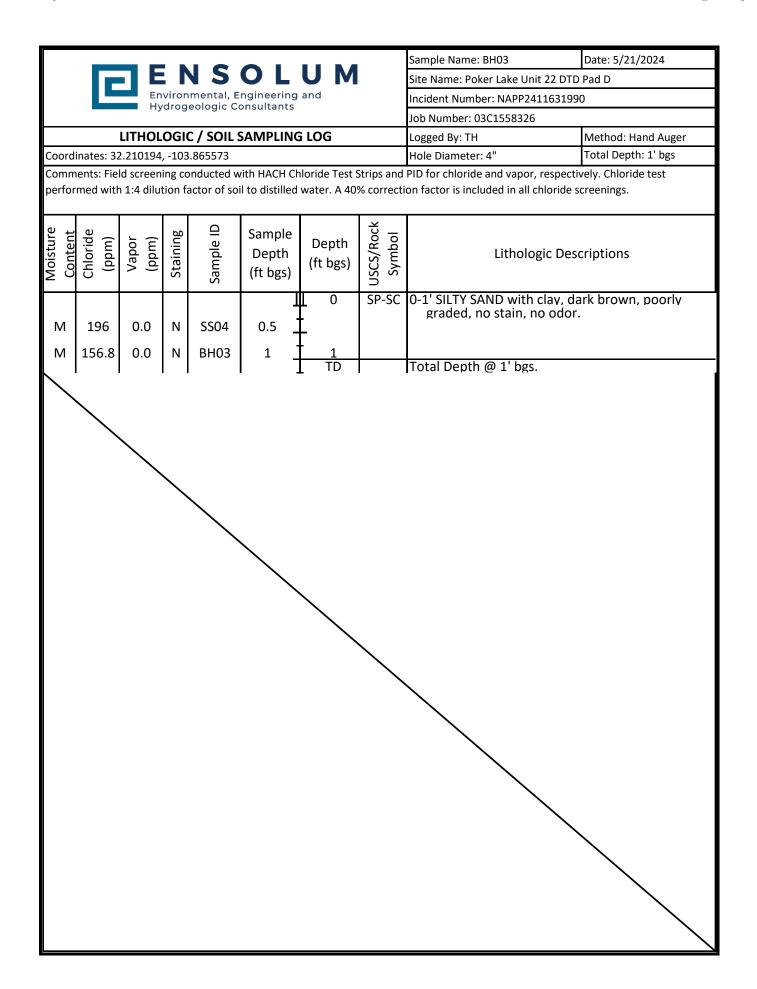


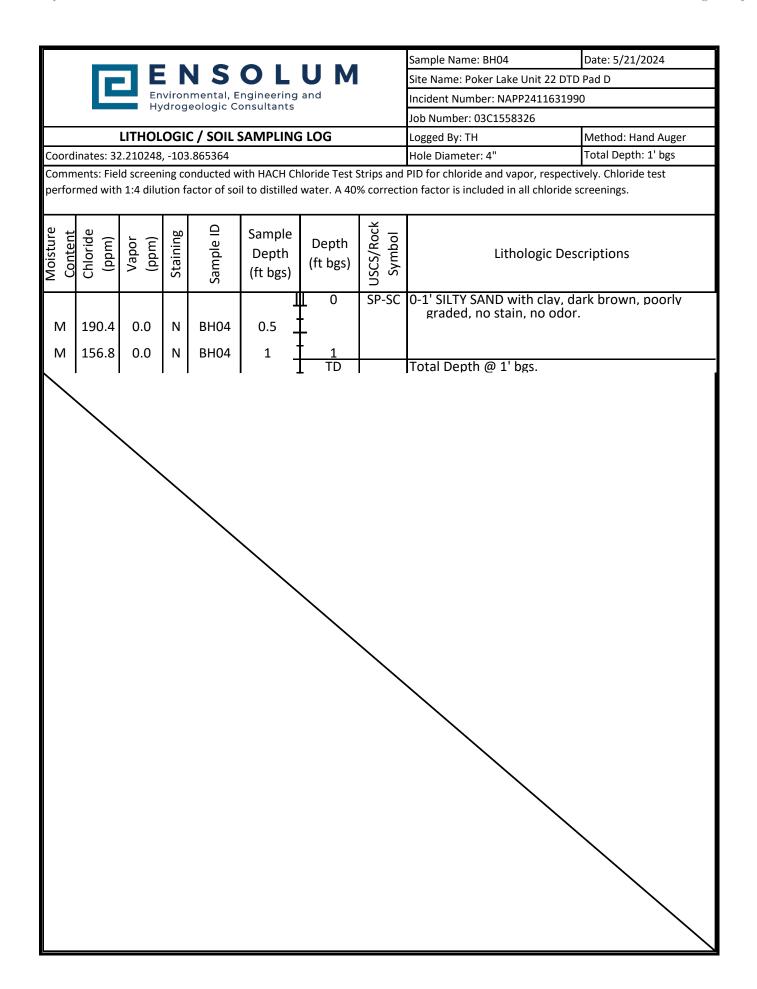
APPENDIX C

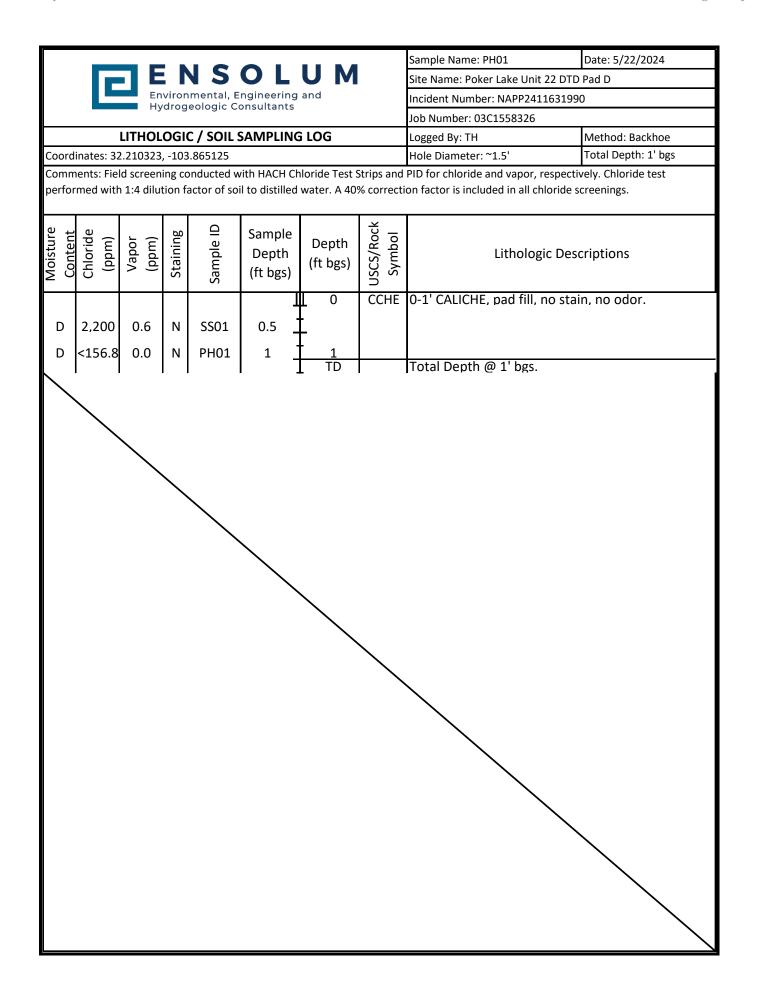
Lithologic Soil Sampling Logs

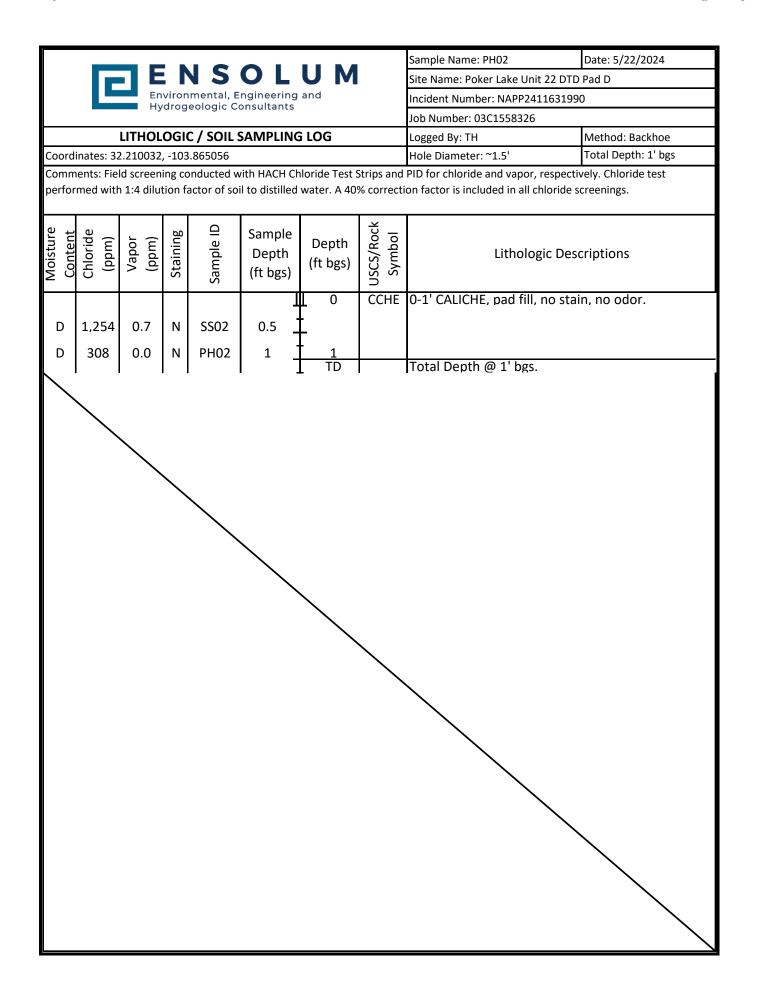


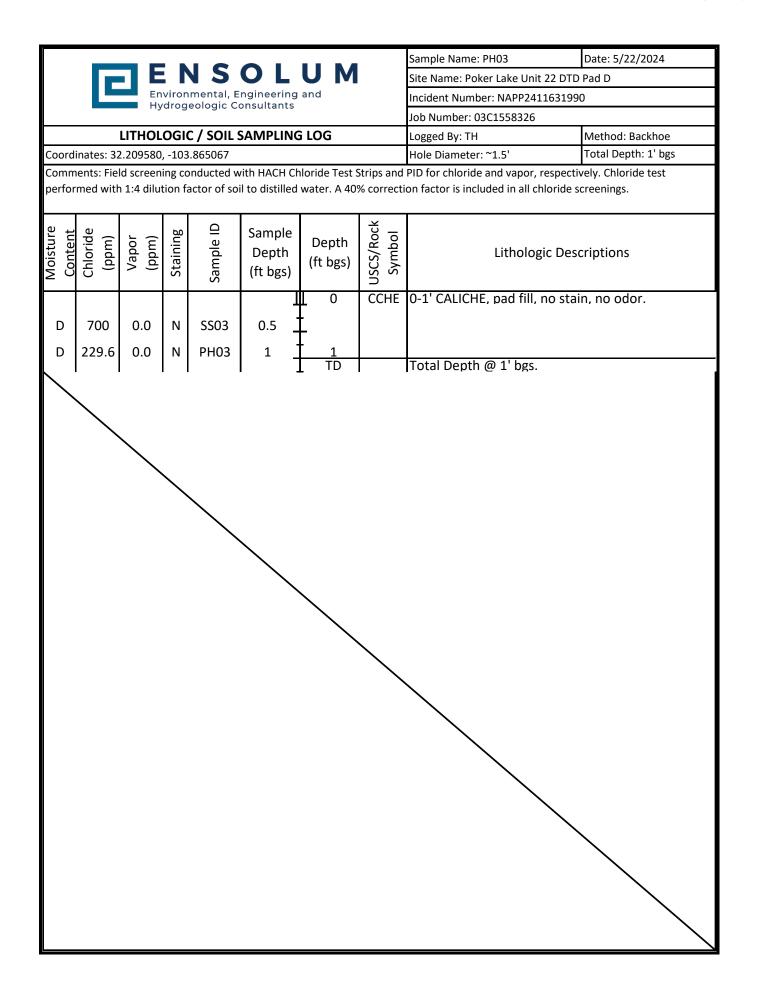


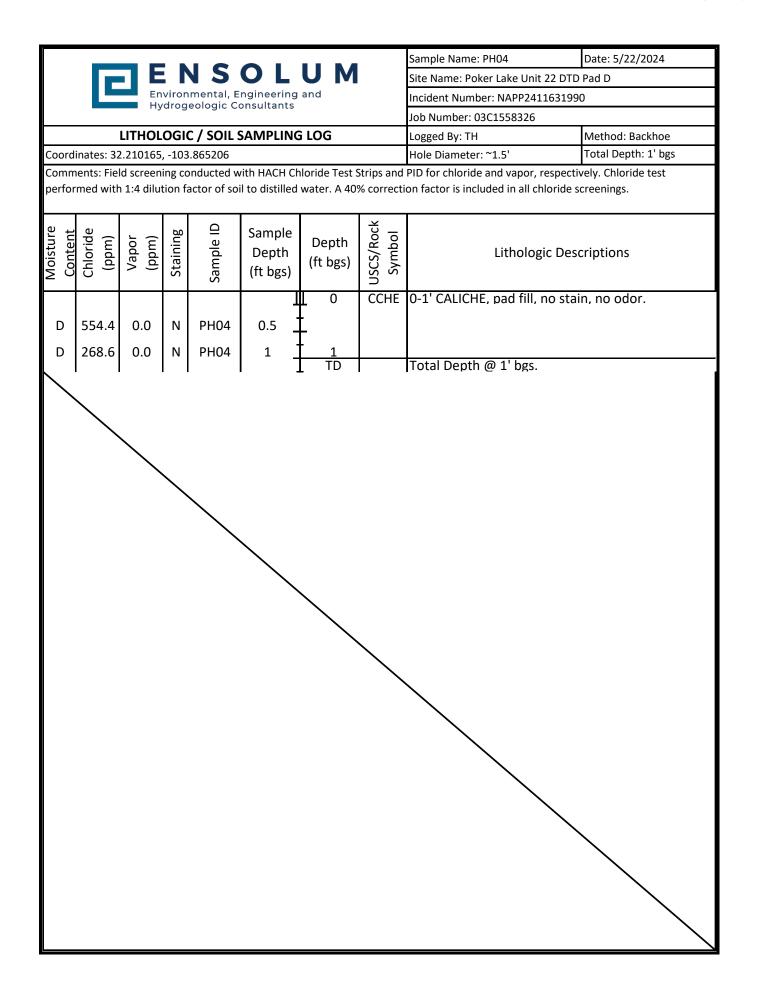


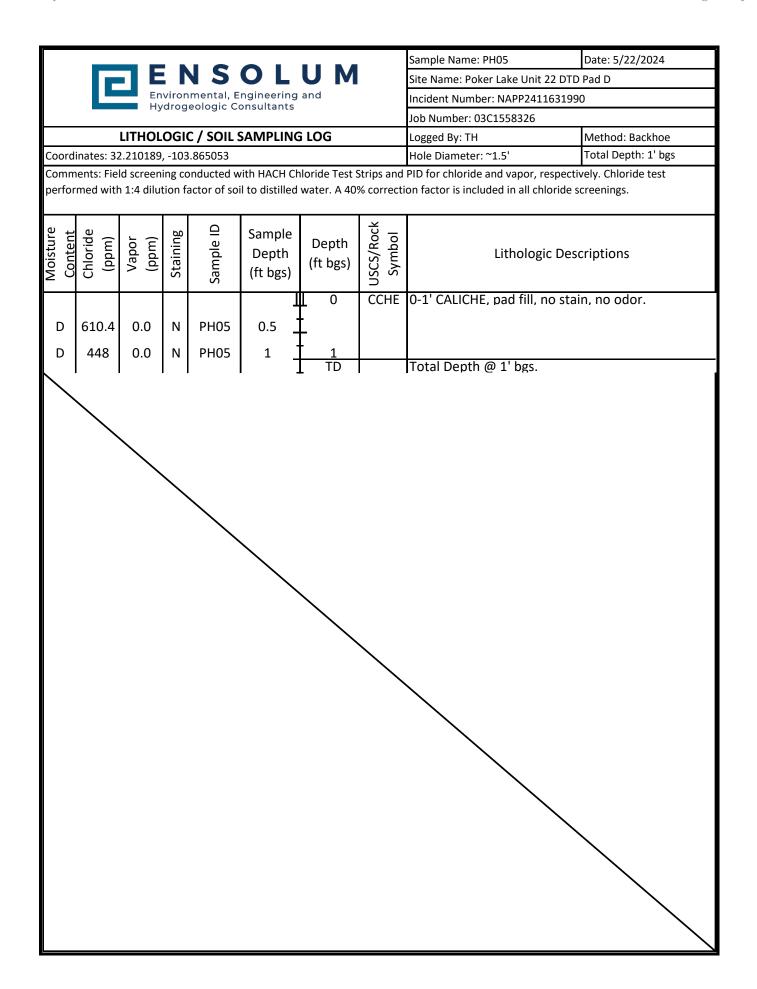














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



May 02, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 04/26/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 04/26/2024 Reported: 05/02/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 0.5' (H242245-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.22	111	2.00	5.78	
Toluene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	4.41	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	112	2.00	4.29	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.82	114	6.00	3.97	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	04/30/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/26/2024 Reported: 05/02/2024

05/02/2024 PLU 22 DTD PAD D

mg/kg

Project Name: PLU 22 DTD Project Number: 03C1558346

Project Location: XTO

Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: SS 02 0.5' (H242245-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.22	111	2.00	5.78	
Toluene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	4.41	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	112	2.00	4.29	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.82	114	6.00	3.97	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 % 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/30/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	34.1	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.3	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



#### Analytical Results For:

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

Received: 04/26/2024 Sampling Date: 04/25/2024

Reported: 05/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO

#### Sample ID: SS 03 0.5' (H242245-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	04/30/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.0	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/26/2024

mg/kg

Reported: 05/02/2024 Project Name: PLU 22 DTD PAD D

Project Number: 03C1558346

Project Location: XTO Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

#### Sample ID: SS 04 0.5' (H242245-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 % 71.5-13- mg/kg		4						
Chloride, SM4500CI-B			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/30/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	71.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.7	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



#### Analytical Results For:

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

Received: 04/26/2024 Reported: 05/02/2024

Reported: 05/02/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO

Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: SS 05 0.5' (H242245-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/30/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.8	% 49.1-14	8						

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Celey D. Keine



#### **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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company: XTO Energy Inc.  Attn: Amy Ruth  Address: 3104 E. Green St.  City: Carlsbad  State: NM Zip: 88220  Phone #:  Fax #:  PRESERV. SAMPLING  I 225  I 225  I 225  I 225  I 225  I 230  I 230  I 230  CHECKED BY:  Turnaround Time:  State  Company: XTO Energy Inc.  Attn: Amy Ruth  Address: 3104 E. Green St.  City: Carlsbad  X	10	3/3/333-2320	TAX (3/3) 333-24/0	10			Differential			NAMES AND ADDRESS OF TAXABLE PARTY.				
Project Manager Tracy Hillard  Address: 3122 National Parks Hwy  City: Carlsbad  State:NM Zip: 88220  Address: 372 National Parks Hwy  City: Carlsbad  Project Association:  Sampler Name: Connor Whitman  Project Location:  Sampler Name: Connor Whitman  Sample Depth  G REE State:NM Zip: 88220  Project Location:  Sampler Name: Connor Whitman  Project Name: Connor Whitman  Sampler Name: Connor Whitman  Project Name: Name		Ensolum IIC			1717/01/02					ANALYSIS		REQUEST	TSE	
Address: 3122 National Parks Hwy  City: Carlisbad  State: NM Zip: 88220 Address: 3104 E. Green St. Project Address: 3104 E. Green St. Project Address: 3104 E. Green St. Project Mame: PLU 22 DTD Pad D  Project Name: PLU 22 DTD Pad D  Project Name: Connor Whitman  From Julius Edw.  Sampler Name: Connor Whitman  From Julius Edw.  Julius Edw	Project Manager: Tra	cy Hillard			P.O. #:			_						
Chry. Carlsbad  Phone #: 337 257-8307  Fax #:  Project Name: Connor Whitman  Project Name: Connor Whitman  Fax #:  Sampler Name: Connor Whitman  For Advisor cours  F	Address: 3122 Nati	onal Parks Hw	Ŋ			gy Inc.	-	-						
Project #: 337 257-3307  Fax #: Address: 3104 E. Green St. Project Owner: XTO City; Carlisbad  Project Name: PLU 22 DTD Pad D  Project Name: Connor Whitman  Fax #: Sampler Name: Connor Whitman  Fax #: Sampler Name: Dampin Name: Connor Whitman  Fax #: Sampler Name: Connor Whitman  MATRIX PRESERV, SAMPLING  Fax #: Fax			State: NM		Attn: Amy Ruth									
Project Mame: PLU 22 DTD Pad D  Project Location:  Sample Location:  Sample Location:  Sample Depth Rame: Connor Whitman  Fax #:  Fax	1e #:	-8307	Fax #:			een St.	-	*******************************	-					-
Project Location:  Sampler Name: Connor Whitman  For Use DNAY  Sampler Depth  For Use DNAY  For Use	Project #: 03C1558	346	Project Owner		city: Carlsbad		-		-					
Sampler Name: Connor Whitman  Fax #:  Sampler Name: Connor Whitman  Fax #:  Fa	Project Name: PLU	Pad			Z	20					Management			
Sample Name: Connor Whitman   Fax #:   PRESERV   SAMPLING   PRESERV	Project Location:				Phone #:		-	*******						
Lab I.D. Sample I.D. Sample Depth (Feet) Sample Depth (Sample Depth (Sam	Sampler Name: Con	or Whitman			Fax #:			-	***************************************		-			
Lab I.D. Sample I.D. Sample Depth C RELEASE NOTE Liability and client an extension in empty for any plan integral whether laced in controlled or the standard for the specification and short post and simple condition in the specification and short post and short	FOR LAB USE ONLY			MATRIX	ESERV.	PLING					***************************************			
SSOI   O.5'   G   1		ample I.D.	Sample Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER :	TIME			ONLONDE		3			
PLEASE NOTE: Liability and Clematyse. Cardinal's liability and client's exclusive remedy for any claim alway whether based in contract or tord, shall be limited to the amount paid by the client for the ambigues. All claims including those for resignation and may other cause whitesoered shall be determed winered unless made in witing and received by calmal witing. 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including white limited to the performance of services hereander by calmal, insulations, business itemprophore, bear of use, or loss of profits incorred by dark, its subsidianties.  Relinquished By:  Time:    One   Date:   Time:   One   Date:   Time:   One   Tim	2	1055		III DANIEL DANIE	4-25-24	1215	1				+			
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remety for any claim arising whether based in contract of text, shall be limited to the amount paid by the client for the services. In me event shall cardinals be liabile for indications for cause whatescome shall be demanded in which and received by Cardinal within 30 days after completion of the applicable services. In me event shall cardinals be liability and clients exclusive remety for any claim arising whether based in contract of text, shall be limited to the amount paid by the client for the services in which are caused whatescome shall be demanded in which and received by Cardinal within 30 days after completion of the applicable services. In me event shall cardinals be limited to received any whether the shall be limited to the amount paid by the client for the applicable services in which are the shall be limited to the amount paid by the client of the applicable services in the particular will be limited to make under or otherwise.  Relinquished By:  Received By:  Received By:  Received By:  Sample Condition  Cost Center: 2242511001  Sample Condition  Cost Center: 2242511001  Russing  The memometer ID extract  Russing  The memometer ID extract  Russing	W	5503				1225		1	\					
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any dam 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 inegligence and any other cause whatcoever 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 consequented damages, including without filmition, business interruptions, loss of use, or tess of profits incurred by client, its subsidiaries, remember by Cardinal any other cause whether the profits in contract or tort, shall be limited to the applicable service. In no event shall Cardinal whether and in writing and received by Cardinal within 30 days after completion of the applicable services and in the profit in consequent of or related to the performance of services.  Relinquished By:    Place   Place	4	10055				1230	1	1	1					
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim sixing 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 whatocever shall be deemed wavier unless maked 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 whatocever shall be deemed wavier unless maked in contract or tort, shall be limited to the amount paid by the client for the analyses after completion of the applicable service. In no event shall cardinal be liable for moderated or consequential damages, including without filmitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.  Reclinquished By:  Reclived By:  Received By:  Received By:  Received By:  Received By:  Received By:  Remarks:  Cost Center: 2242511001  Cost Center: 2242511001  Cost Center: 2242511001  Cost Center: 2242511001	5	5055	-	<	<	1235	1							
PLEASE NOTE: Lability 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 whatscever shall be deemed wished unless made in withing 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, limitation of the applicable services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise.  Reclived By:  Received By:  Received By:  Received By:  Received By:  Remarks:  NAPP2411631990  Cost Center: 2242511001														
PLEASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive remedy for any claim aixing 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 withing and received by Cardinal within 30 days after completion of the appliciable service. In no event shall Cardinal be liability or 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.  Received By:  Received By:  Received By:  Received By:  Received By:  Received By:  Remarks:  NAPP2411631990  Cost Center: 2242511001  Cost Center: 2242511001  Sample Condition  Checked By:  Turnaround Time:  Rush  Thermometer ID #113							1	10	1 2					
Date: WAWAY Time: 0/00  Date: WAWAY Time: 1/20  Cle One)  Observed Temp. Cool Intact (Initials)  Us - Other: Corrected Temp. Cool Intact (Initials)	PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal be effiliated or successors arising out of	ges. Cardinal's liability and cl for negligence and any other liable for incidental or cons	ient's exclusive remedy for an cause whatsoever shall be depended damages, including to a creative hereigness and services hereigness has the continue of the continue to the	y claim arising whether based in contract or eerned waived unless made in writing and r without limitation, business interruptions, lo	r tort, shall be limited to the amount pak eceived by Cardinal within 30 days after so fuse, or loss of profits incurred by classed upon any of the above stated reaches	by the client for the recompletion of the a lient, its subsidiaries.	pplicable							
Date:  Wild (13 t)  Time:  13 3 0  Sample Condition  CHECKED BY:  Turnaround Time:  Cool Intact  Contracted Tamp. Content Depth Condition  Checked Tamp. Content Tamp. Content Depth Content Depth Content Depth Content Depth Content Depth Content Depth Content Tamp. Con	Relinquished By:		Date: 1/24/24 Time: 0/00	Received By:		Verbal Resu All Results a	re ema	Yes iled. Ple	□ No pase prov prrissey@	Add'I Phone #: ide Email addres ensolum.com, 7	none #: l address: com, TH	illard	@Ensel	ess: THillard OEnselum.com
Corrected Temp. Sample Condition CHECKED BY: Turnaround Time:  Cool Intact (Initials)  Corrected Temp.	Relinquished By:		Date: 4/36/31/ Time: 1330	Received By:	men			4116319 2425110						
Corrected lemp.	Delivered By: (Circle (		bserved Temp.	9	1	Turnaround	Time:	St	d		Bacteria (only) Sample Condition Cool Intact Observed Temp.	ly) S	ample Condition Observed Temp. °C	emp. °C
O. DII No II	Sampler - UPS - Bus		orrected lemp.	NO DIST	X	Correction Fac		1	5		No No	1	Corrected Temp. °C	emp. °C



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PH 01 1' (H242874-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 02 1' (H242874-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Reported: 05/29/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

ma/ka

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PH 03 1' (H242874-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Analyzed By: MC

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Celey D. Keine



### Analytical Results For:

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

Received: 05/23/2024

Reported: 05/29/2024 Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: PH 04 0.5' (H242874-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PH 04 1' (H242874-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Celey D. Keine



05/22/2024

Cool & Intact

Tamara Oldaker

Soil

Sampling Date:

### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Reported:05/29/2024Sampling Type:Project Name:PLU 22 DTD PAD DSampling Condition:Project Number:03C1558346Sample Received By:

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 05 0.5' (H242874-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 05 1' (H242874-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(575) 303-2326 F	(575) 393-2326 FAX (575) 393-2476		
Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Trocky Hillord	20	P.O. #:	
Address: 601 N Marienfeld Street, Suite 400	ite 400	Company: X10 Energy	au
City: Midland	State: TX Zip: 79701	Attn: AMY KUTh	
Phone #: 575.937.3906	Fax #:	Address: 3104 (2) Peru	
3777	Project Owner: XTO	city: Cay Shad	
me: Pl	lad D	State: NM Zip: 88220	
2, 20997,	-103,86489	Phone #: 437 · (a(a1-057	)57)
Sampler Name: Tracy Hillard		1	
FOR LAB USE ONLY	p. MATRIX	PRESERV. SAMPLING	NG
Lab I.D. Sample I.D.	(feet) Depth  G)RAB OR (C)OMF  CONTAINERS  GROUNDWATER  WASTEWATER  GOIL  GLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH 8015 BTEX 8021 Chloride 4500
		K Swy	1005 XXX
3 PH03			0970
	0.5		Chho
LoHd S			
6 74.05	0.5		275
7 PHOS			
PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any of analyses. All claims including those for incidental or comments and the liable for incidental or comments.	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's tree please. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be displayed and received by Cardinal within 30 days after completion of the applicable 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 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	act or tort, shall be limited to the amount paid and received by Cardinal within 30 days after is, loss of use, or loss of profits incurred by cli	by the client for the completion of the applicable and, its subsidiaries,
affiliates or successors arising out of or related to the performance Relinquished By:	ance of services hereunder by Cardinal, regardless of whether such of Date:    Received By:	regardless of whether such claim is based upon any or the above saled upon	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:  All Results are emailed. Please provide Email address:
D. K.M.	Time 330 Mulliph	Make	BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
Relinquished By:	Date: Received By:		105+ (101+c : 224251100)
Delivered By: (Circle One)	Observed Temp. °C / Sample Condition	CHECKED BY:	ne: Standard
Sampler - UPS - Bus - Other:	- m	0	Correction Factor 0.505 # 5/23/24   No   No   Corrected Temp. °C



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5 (H242875-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

A ... - L ... - - - I D. .. MC

Cardinal Laboratories \*=Accredited Analyte

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Celey & Freene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS 07 0.5 (H242875-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: SS 08 0.5 (H242875-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS 09 0.5 (H242875-04)

Analyte Res	sult								
		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* <0.0	050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene* <0.0	050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene* <0.0	050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes* <0.	150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX <0.3	300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	71.5-13-	4						
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: HM					
Analyte Res	sult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 16	50	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg/k	g	Analyze	d By: MS					
Analyte Res	sult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10	0.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28* <10	0.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36 <10	0.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	84.7 %	6 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	78.8 %	49.1-14	8						

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Celey D. Kreine



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: SS 10 0.5 (H242875-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: SS 11 0.5 (H242875-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

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Celey D. Keene



### **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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Celeg D. Freene

### 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(eene@cardinallabsnm.com	nges to celey.k	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	cannot accept ve	† Cardinal	06 K 3.2 10/0//21	FURM-UUB
No.	Correction Factor	Tyes Tyes Tye		Corrected Temp. °C	Sampler - UPS - Bus - Other:	Sampler - UPS
ne: Standard Bacteria (only) sample contents:  Rush Cool Infact Observed Temp. °C  Tyes Yes	Turnaround Time	Sample Condition CHECKED BY: Cool Intact (Initials)	6.1	Observed Temp. °C	(Circle One)	Delivered By: (Circle One)
1921100	COST CONTECT 22		Received By:	Date:	By:	Refinquished By:
BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	BBelill@ensolu	1840 WILLIAMS		Time:	the o	
Verbal Result:	Verbal Result: All Results are e	01111	Date: Received By:	Date:	ffliates or successors arising out of or related to the performance Relinquished By:	Affiliates or successors arising Relinquished By:
	completion of the applica ant, its subsidiaries, sons or otherwise.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whetier cases in connect on the control of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 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, 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, 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, and the profits incurred by client, its subsidi	any claim arising whether base e deemed waived unless mading without limitation, business	d client's exclusive remedy for ther cause whatsoever shall by onsequental damages, includi	and Damages. Cardinal's liability an uding those for negligence and any of Cardinal be liable for incidental or of Cardinal be	PLEASE NOTE: Liability analyses. All claims inclusions service. In no event shall
	by the client for the	and in contract or tort shall be limited to the amount paid				
					1100	4
	1320 1				0100	5
	000				200	1
	1150				9000	20
	1145				2000	74
	140	_		-	2500	2-
×	215		_ ;	0,5	ASS	MOTON /
+	+	OIL SLI OT AC	# C GR		1	SIXTHE
BTEX 8021 Chloride 4500	TPH 8015	UDGE THER: CID/BASE: E / COOL THER:	RAB OR (C)ON CONTAINERS COUNDWATER ASTEWATER	Depth (feet)	Sample I.D.	Lab I.D.
		MATRIX PRESERV.				FOR LAB USE ONLY
	S. C.	Fax #:			Tracy Hillard	Sampler Name: Tracy Hillard
	115	Phone #: 432 · (1/2) · (1/57)	9	-103.86489	17990	Project Location
	0	State: NM Zip: 882 30		Pad D	0	Project Name: PU) 20
		city: (2500)	: XTO	Project Owner:	JY583416	0
	R	Address: SIDY Syllal		Fax #:	15-937-3906	Phone #: 57
		~	Zip: 79701	te: TX		City: Midland
	74	Company: XTO Entry		ite 400	arienfeld Stre	Address: 601 N
		P.O. #:		ord	Tracy Hillard	Project Manager:
ANALIO CITA		BILL TO			Ensolum, LLC	Company Name: Ensolum, LLC
ANALYSIS REQUEST			76	AX (575) 393-247	(575) 393-2326 FAX (575) 393-2476	



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH 01 1' (H242876-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



05/21/2024

Soil

### Analytical Results For:

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

Received: 05/23/2024 Sampling Date:
Reported: 05/29/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: BH 02 0.5' (H242876-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH 02 1' (H242876-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: BH 03 1' (H242876-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

### Sample ID: BH 04 0.5' (H242876-05)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

Analyzed By: MC

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



05/21/2024

Soil

### Analytical Results For:

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

Received: 05/23/2024 Sampling Date:

Reported: 05/29/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: BH 04 1' (H242876-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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Celey D. Keine



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Project Manager: TCOLLY HILLOCO		P.O. #:	#:		1	-	ANA	ANALYSIS		REQUEST	-
		P.O.	#				_	-	_		
L					_			_		_	
Address: 601 N Marienfeld Street, Suite 400	te 400	Com	Company: XTO Energy	20						_	
City: Midland	State: TX Zip: 79701						_				
Phone #: 575-937-3906	Fax #:	Addr	Address: 3104 Green St	re St			_				
Project #: ()3()558,346	Project Owner: XTO		city: Carlsbad								_
16. P	Parl D		State: NW Zip: 88220	9							
n: 32,20997,	-103,86489	Pho	Phone #: 432-661-0571	057/							
cy Hillard		Fax		5						_	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING						_	
FUN DEB COLL STREET	C)OMP. RS		_			4500					
Lab I.D. Sample I.D.	(feet) (f	VASTEWATE SOIL DIL SLUDGE DTHER:	ACID/BASE: CE / COOL 'OTHER :	TPH 8015	BTEX 802	Chloride 4					
HOT AO IF	- #	×:	12:12:5 X	0900	^ \	X					
CULIE		_ >	_	0910		-					
				8160							
CHUN				0930							
NO TO	2.0			0937							
PH29 2			-	, 0460	+	_	+				
					+						
					+			+			
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 processes. All raims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days affect completion of the applicable.	client's exclusive remedy for any claim arising the cause whatsoever shall be deemed waived	whether based in contract or tort, unless made in writing and received	shall be limited to the amount pake ed by Cardinal within 30 days after	by the client for the roompletion of the ap	plicable		土				
service. In no event shall Cardinal be liable for incuterial or consequence of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based up affiliates or successors.	nnce of services hereunder by Cardinal, regardless of whether such claim is based upon any of the	lless of whether such claim is base	on any of the	above stated reasons or otherwise.  Verbal Result:	==	□ Yes □ I	□ No Ad	Add'l Phone #:	le #:		
Relinquished By:	Sime: 22	Januara II		All Results are emailed. Please provide Email address:  BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	e email	m, TMorriss	ey@enso	lum.com	n, THillard	ป@ensolun	n.com
Relinquished By:	Date: Received By	ed By:	Thurst of the	nAPP2411631990	1163	1990	26110				
			CHECKED BY:	COST CENTER: Standard A	Atu.	Stand	Standard A		teria (on	ily) Sampl	Bacteria (only) Sample Condition
Delivered By: (Circle One)	Observed lemp. C 17	Cool Intact	(Initials)	Thormometer	#443	Rush		_	Cool Intact ☐Yes ☐ Ye	Š	Observed Temp. C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes	- f	Correction Factor 105°C	tor -0.5	かれる	5/23/24		□ Nc □ No		Corrected Temp. °C



May 30, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



05/21/2024

Soil

### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Sampling Date:

Sampling Type:

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 01 0.5 (H242877-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 02 0.5 (H242877-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 03 0.5 (H242877-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil
Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact

Project Number: 03C1558346 Sample Received By: Tamara Oldaker Project Location: XTO 32.209997-103.86489

Sample ID: FS 04 0.5 (H242877-04)

BTEX 8021B  Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Re	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	18						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 05 0.5 (H242877-05)

BTEX 8021B	mg,	mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: XTO 32.209997-103.86489

mg/kg

### Sample ID: FS 06 0.5 (H242877-06)

BTEX 8021B

DIEX GOZID	1119/	<u>ng</u>	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 08 0.5 (H242877-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 09 0.5 (H242877-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						
surroguie: 1-Cniorooctaaecane	103	70 49.1 <b>-</b> 14	0						

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### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 10 0.5 (H242877-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558346 Sample Received By:

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 11 0.5 (H242877-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: FS 12 0.5 (H242877-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	6 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558346 Sample Received By:

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 13 0.5 (H242877-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-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	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Reported:

05/30/2024 PLU 22 DTD PAD D

Project Name: Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: FS 14 0.5 (H242877-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: XTO 32.209997-103.86489

ma/ka

### Sample ID: FS 15 0.5 (H242877-14)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 16 0.5 (H242877-15)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 17 0.5 (H242877-16)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 18 0.5 (H242877-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 %	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 19 0.5 (H242877-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 20 0.5 (H242877-19)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celeg & Freene



### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 21 0.5 (H242877-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: XTO 32.209997-103.86489

ma/ka

### Sample ID: FS 22 0.5 (H242877-21)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2024	ND	416	104	400	10.9	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 % 49.1-148		8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: XTO 32.209997-103.86489

ma/ka

### Sample ID: FS 23 0.5 (H242877-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/30/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 % 49.1-148		8						

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### Analytical Results For:

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

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 24 0.5 (H242877-23)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/30/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celeg D. Freene

Relinquished By:

Received By:

0A102411631990

All Results are emailed. Please provide Email address:

□ No

Add'l Phone #:

BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Date:
Time:
Observed Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Turnaround Time:
Thermometer ID #4

Standard Rush #140

Cool Intact

☐Yes ☐ Yes

☐ No ☐ No

Corrected Temp. °C

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

105t Center: 2242511001

Relinquished By:

ervice. In no event shall Cardinal be liable for incidental

loss of use, or loss of profits incurred by client, its subsidiaries,

etion of the applicable

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC	Ensolum, LLC												6		BILL TO					A	ANALYSIS		REQUEST	딞	TS				
Project Manager:	Tracy Hillard	ard								P	P.O.	#	- 1	- 1					4	$\dashv$	$\dashv$		$\dashv$			$\dashv$	$\dashv$	$\neg$	
Address: 601 N I	Address: 601 N Marienfeld Street, Suite 400	ite 400								0	9	par	₹	×	Company: XTO Englan	20					_	_							
City: Midland		State: TX	Zip: 79701	: 79	70,	_				<b>&gt;</b>	#	A	Attn: Amu	3	4,3								_						
Phone #: 575	Phone #: 575-937-3906	Fax #:								Þ	d	ess		0	-	15					_								
Project #: 03C 558346	S58346	Project Owner: XTO	~	7	0					C	₹	5	2	5	city: Carlsbad			1											
Project Name: P	Project Name: PLU 22 DTD	Pad D								S	tate		S.	2	State: NW zip: 88220	00													
Project Location	Project Location: 32, 80997, -	,-103.86489	9							D	hor	1e #	2	S	Phone #: 437-661-057	571						_							
Sampler Name: Tracy Hillard										Ţ	Fax #	**							_		_								
FOR LAB USE ONLY				П	П	1	ş	MATRIX	×	ı	P	쯦	PRESERV.	^	SAMPLING	NG													
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Lab I.D.	Sample I.D.	(feet)	RAB OR (	ONTAINE	OUNDWA	STEWATE	IL		JDGE	HER:	ID/BASE:	/ COOL	HER:	HER.			PH 8015	ΓEX 8021	hloride 45										
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Cu	FS03	0.5		-							_			_		\$21							+			+	_		
4	FSOY	0.5		-												130							-			$\dashv$			
5	1305	0.5													_	135			_								-		
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9	F310	2,0	_	D												005		-	_							+	-		
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LEASE NOTE: Liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tord, shall be limited to the amount paid by the client for the	ent's exclusive remedy for any	y claim	arisin	ndw Br	ether	based	in co	ntrac	t or to	rt, sha	all be	limite	d to th	ne amount paid by t	he client for the					ŀ	ŀ	ŀ	L		ŀ	ŀ		

# 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1047

PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Card affiliates or successors arising Relinquished By:	The same of the sa						M			T	_						z bal	Lab I.D.	FOR LAB USE ONLY	Sampler	Project L	Project Name:	Project #: 03C	Phone #	City: Midland	Address	Project I	Compan	
shed By:	mynch	1	NON	shed By:	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.	analyses. All claims including those for negligence and any other cause whatsoever shall be determined by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable in the service.	19 FOOD	1	1/ FS18	1/2 + S/T	15 +516	14 1515		12 7513		10 FS11	7	D. Sample I.D.	SE ONLY	Sampler Name: Tracy Hillard	Project Location: 38, 2019	Vame: YU da D	: 03C1558346	Phone #: 575-937-391	land	Address: 601 N Marienfeld Street, Suite 400	Project Manager: Tracy	Company Name: Ensolum, LLC	(575) 393-23
Time:	Date:	SS 111153201	1) 523.4	Date: 7/	informance of services hereunder by C	ility and client's exclusive remedy for a any other cause whatsoever shall be	4								_	0,5	(feet)				7, -103.86489	=		O() Fax #:	State: TX	et, Suite 400	Hillard		(575) 393-2326 FAX (575) 393-2476
neceived by:	Danisiand Dur	MINIMI	Mille	Received By:	sens and unusual de ladde to incudental or consequental danages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries assons 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.	ny claim arising whether based in conti deemed waived unless made in writing										C I X	(G)RAB O # CONTAI GROUND! WASTEW/ SOIL OIL	NERS WATER			39		XTO		Zip: 79701				476
(	,	U MOURLA		111	ins, loss of use, or loss of profits inc aim is based upon any of the above	ract or tort, shall be limited to the a and received by Cardinal within 30										X Si	SLUDGE OTHER: ACID/BASICE / COO OTHER:		PRESERV.	Fax	Phone #: 437- (66)-0571	State: NM Zip: 8000	city: (or/shad	2	Attn: Amu	Company: XTO	P.O. #:	BILL	
DAVI O	REMARKS:	BBelill@ens	All Results ar	Verbal Result:	urred by client, its subsidiaries, stated reasons or otherwise.	mount paid by the client for the days after completion of the ap	1243	1421	1239	1237	1235	1232	1230	9221	1223	0221 12:25	DATE TIME		SAMPLING		(de)·0571	80220	ad	Greene	CUAN !	Energy		70	
1001110	REMARKS:	olum.com, TMorriss	e emailed. Please	- 1		plicable										× × ×	BTEX 80	021											
ハニー		BBeiill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	All Results are emailed. Please provide Email address:	☐ Yes ☐ No Add'I Phone #:																								ANALYSIS REC	
		ensolum.com																										REQUEST	

Corrected Temp. °C

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

Stastat No No No

Corrected Temp. °C

20

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Comment				
company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST
Project Manager: 10004 H	Hillard	P.O. #:		- 1
Address: 601 N Marienfeld Street, Suite 400	, Suite 400	Company: X TO GYOLG U	IGN	
City: Midland	State: TX Zip: 79701	Attn: Anny Ruth	5	
Phone #: 575-931-3906	Fax #:	7	5000	
Project #: 03C 1558 34W		5		
0	Pa	State: NW Zip: 80220	ממ	
Project Location: 30, 20997, -103, 86489	1,-103,86489	Phone #: 437 : (Mal: 057	ラムノー	
Sampler Name: Tracy Hillard		Fax #:		
FOR LAB USE ONLY		MATRIX PRESERV SAMPLING	LING	
	C)OMP. RS TER			
Lab I.D. Sample I.D.	(G)RAB OR (C)# CONTAINED	SOIL OIL SLUDGE OTHER: ACID/BASE: CE/COOL OTHER:	TPH 8015 BTEX 8021 Chloride 45	
15	0.5	1 5.2.0	TYX YYY	
15	-		1250 1 1	
けず			1252	
25 + 229			1755 1 1 1	
3				
PLEASE NOTE: Liability and Damages. Cardinal's liability a analyses. All claims including those for negligence and any	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 20 days effect on the contraction of the contract	ased in contract or tort, shall be limited to the amount paid by	y the client for the	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal Religions of services hereunder by Cardinal Religions in the performance of services hereunder by Cardinal Religion	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, repardless of whether such claim is based upon any of the above stated reasons or otherwise.  Refinancia here the successors arising out of or related to the performance of services hereunder by Cardinal, repardless of whether such claim is based upon any of the above stated reasons or otherwise.	t limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie, regardless of whether such claim is based upon any of the above stated reasons or otherwise	nt, its subsidiaries, ons or otherwise.	
1000	5-23-24 Neceived by:		Verbal Result: ☐ Yes ☐ No Add'I Phone #:  All Results are emailed. Please provide Email address:	☐ No Add'I Phone #:  ase provide Email address:
Relinquished By.	3300	HA SHOWER	BBelill@ensolum.com, TMorri	BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
y and a second	Time:		MAPP SHILL 31990	0
Delivered By: (Circle One)	Observed Temp. °C / G Sam	Sample Condition CHECKED BY:	Cost conter: 224 251100	
Sampler - UPS - Bus - Other:	1.1	(Initials)		Rush Cool Infact Observed Temp. °C

Page 28 of 28

From: <u>Tacoma Morrissey</u>
To: <u>Wells, Shelly, EMNRD</u>

Subject: [EXTERNAL] RE: NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D

**Date:** Tuesday, September 17, 2024 11:58:14 AM

Attachments: image001.png image002.png

image002.png

Figure 3. Confirmation Soil Sampling Locations.pdf

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

I appreciate you reaching out! You are correct, no excavation was completed in that area, only delineation and confirmation soil sampling which indicates no impacted soil exists in that area. What you are seeing in the Figure is an error in the legend that was missed, my sincerest apologies. Please see the attached figure with the legend corrected, to assist in your review.

Please let me know if we need to submit anything additional to document the correction. Thank you so much for reaching out and letting me address your concern.

Thank you,



## Tacoma Morrissey

Associate Principal 337-257-8307 Ensolum, LLC

in f 🛚

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Tuesday, September 17, 2024 12:37 PM

To: Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D

### [ \*\*EXTERNAL EMAIL\*\*]

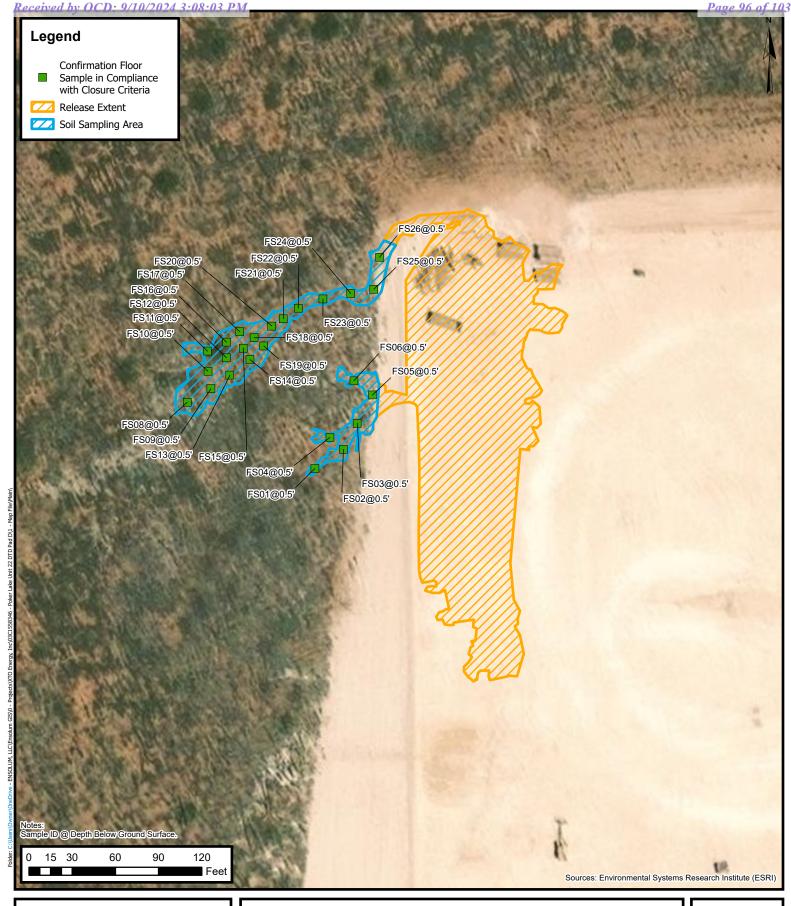
Hi Tacoma,

I am reviewing the submitted remediation plan for NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D and have a few questions. Why does the area of the pasture that was sampled say Excavation Extent? From what I read in the remediation summary, no surface scrape or any excavation was conducted in the pasture or did I miss something? I look forward to hearing what you have to say.

Kind regards,

## Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/





# **Confirmation Soil Sample Locations**

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 3

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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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 382286

### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411631990
Incident Name	NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 22 DTD PAD D
Date Release Discovered	04/09/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 18 BBL   Recovered: 0 BBL   Lost: 18 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 382286

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TONS (continued)
Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
QUESTIONS	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a	sofaty barard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	I liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required tasses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor

Email: colton.s.brown@exxonmobil.com

Date: 09/10/2024

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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, Page 3

Action 382286

### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ 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	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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	
ttach a comprehensive report demonstrating the lateral and vertical extents of soil contains	mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
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)	2360	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	34.1	
GRO+DRO (EPA SW-846 Method 8015M)	34.1	
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 04/26/2024		
On what date will (or did) the final sampling or liner inspection occur	11/18/2024	
On what date will (or was) the remediation complete(d)	11/18/2024	
What is the estimated surface area (in square feet) that will be reclaimed	22275	
What is the estimated volume (in cubic yards) that will be reclaimed	845	
What is the estimated surface area (in square feet) that will be remediated	22275	
What is the estimated volume (in cubic yards) that will be remediated	845	
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.		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 382286

### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: Colton Brown
Title: Environmental Advisor

Email: colton.s.brown@exxonmobil.com

Date: 09/10/2024

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.

Released to Imaging: 9/17/2024 2:15:20 PM

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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, Page 5

Action 382286

### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### OUESTIONS

QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I
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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, Page 6

Action 382286

<b>QUESTIONS</b>	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	382573
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024
What was the (estimated) number of samples that were to be gathered	130
What was the sampling surface area in square feet	23000

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

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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** 

CONDITIONS

Action 382286

### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	382286
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### CONDITIONS

-	Created By		Condition Date
	scwells	Remediation plan approved. Variance is approved to collect five-point composite confirmation samples from the base of the excavation every 400 square feet and every 200 square feet from the walls of the excavation. Submit remediation closure report to the OCD by 12/16/24.	9/17/2024