



January 27, 2025

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request  
Poker Lake Unit 21 Brushy Draw West CTB  
Incident Number nAPP2421149787  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities performed at the Poker Lake Unit 21 Brushy Draw West CTB (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing remediation that has occurred, requesting a closure criteria variance, and requesting deferral of final remediation for Incident Number nAPP2421149787 until the Site is reconstructed, and/or the well pad is abandoned.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.11145°, -103.88816°) and is associated with oil and gas exploration and production operations on private land owned by Janey Paschal.

On July 28, 2024, corrosion on pipeline resulted in the release of approximately 22 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and pipelines. No released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on July 29, 2024, and subsequently an Initial C-141 Application (C-141) on August 12, 2024. The release was assigned Incident Number nAPP2421149787.

**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.

This release occurred in the same area as a previously approved *Closure Request* for NMOCD Incident Number nAPP2405336143. A Closure Criteria variance was granted with the following investigation on May 30, 2024.

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Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320628103533001, located approximately 0.27 miles southwest of the Site. The most recently reported depth to groundwater measurement in the well was collected on January 28, 1998, and documented as 264 feet bgs. The total depth of the well is 288 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendices A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 452 feet east of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

The NMOCD prefers the nearest depth to groundwater measurement used to determine Closure Criteria be less than 25 years old and within ½ mile of the Site. The USGS water well data is within ½ mile, but 26 years old. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and nearby depth to groundwater data estimating regional depth to groundwater to be greater than 100 feet bgs in multiple directions of the Site, XTO is requesting a variance for the preferred age of the nearest depth to groundwater data guideline. The nearest depth to groundwater data includes:

- Groundwater wells USGS 320628103533001 (detailed above), USGS 320629103533002, and USGS 320629103533001 are located within a few feet from one another and all have a most recent recorded depth to groundwater of 264 feet bgs. The wells are located 0.27 miles southwest of the Site and most recent measurements were collected on January 28, 1998, November 6, 1992, and February 5, 1959, respectively;
- Soil boring C-4730, permitted by New Mexico Office of the State Engineer (NMOSE) and located 0.96 miles southeast of the Site, was a soil boring completed to determine depth to water on April 17, 2024. The soil boring was drilled via air rotary and advanced to a depth of 105 feet bgs. No groundwater was encountered during the drilling and the borehole was dry;
- Groundwater well C-3832, was permitted by NMOSE with a recorded depth to groundwater of 277 feet bgs on January, 17, 2015. It is located 1.14 miles south of the Site;
- Soil boring C-4758, permitted by NMOSE and located 0.98 miles northwest of the Site, was a soil boring completed to determine depth to water on August 8, 2024. The soil boring was drilled via air rotary and advanced to a depth of 110 feet bgs. No groundwater was encountered during the drilling and the borehole was dry; and

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- NMOSE monitoring well C-02441 located 0.36 miles northeast of the Site was not drilled, as indicated on page 4 of the drilling permit.

While all nearby USGS water wells are older than the NMOCD preferred age for reference data, historical data from the wells demonstrate depth to groundwater fluctuated only  $\pm 30$  feet over a 40-year period in well 320628103533001, and  $\pm 4$  feet over a 43-year period in well 320629103533002. USGS well 320629103533001 was only measured one time. USGS well 320628103533001 only exceeds the NMOCD recommended age of depth to groundwater data by 16 months. Additionally, soil boring C-4730, located 0.96 miles southeast of the Site, was dry to 105 feet bgs in April 2024, soil boring C-4758, located 0.98 miles northwest of the Site, was dry to 110 feet bgs in August 2024, and well C-3832, located 1.14 miles south of the Site, indicates a depth to water of 277 feet bgs recorded in January 2015. The regional depth to groundwater data mentioned above is historically and laterally consistent and, therefore, equally protective of the public, the environment, and groundwater as compared to the preferred guideline for age (less than 25 years) and range ( $\frac{1}{2}$  mile) of referenced water well data. Ensolum believes the data listed above can reasonably and accurately be used to estimate depth to groundwater at the Site to be greater than 100 feet bgs. Based on the above-mentioned findings, XTO requests NMOCD consider a variance for use of water well data that is greater than 25 years old for estimating of depth to groundwater. All Well Logs used for the depth to groundwater investigation are included in Appendix A.

## SITE ASSESSMENT ACTIVITIES

On August 9, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four delineation soil samples (SS01 through SS04) were collected at a depth of 0.5 feet bgs. Delineation soil sample SS01 through SS04 were collected outside the release extent to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): 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 for all delineation soil samples collected indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on visible staining within the release area, delineation and excavation activities appeared to be warranted.

## DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between October 23 and October 25, 2024, Ensolum returned to the Site to conduct additional delineation and oversee excavation activities. Utilizing a hand auger, one borehole (BH01) was advanced within the release extent area to investigate the vertical extent of the release. Borehole BH01 was advanced to a depth of 2 feet bgs. Discrete soil samples were collected at 0.5 feet bgs and the terminal depth of each borehole. Field screening results and observations were logged on a lithologic/soil sampling log, which is included in Appendix C.

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Soil was excavated from the release area as indicated by field screening results. Excavation activities were performed utilizing a hydrovacuum truck, backhoe and transport vehicles. The excavation was completed to the maximum extent possible. XTO safety policy restricts soil disturbing activities within 2 feet of surface equipment and subsurface lines. Following removal of soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavated areas. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS12 were collected from the floor of the excavated areas at 1-foot bgs. Confirmation soil samples FS13 and FS14 were collected at a depth of 0.5 feet bgs in the areas that were not excavated. Confirmation soil samples SW01 and SW02 were collected from the sidewalls of the excavated areas at depths ranging from the ground surface to 1-foot bgs. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

Laboratory analytical results for confirmation soil samples FS13 and FS14 indicated TPH concentrations exceeded Site Closure Criteria. On November 4, 2024, Ensolum personnel returned to the Site to oversee additional excavation. Additional confirmation soil samples FS13A and FS14A were collected within the excavation from a depth of 1-foot bgs. Confirmation sidewall soil sample SW03 was collected from the sidewall of the additional excavation at depths ranging from the ground surface to 1-foot bgs. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above.

The final excavation extent measured approximately 2,505 square feet. A total of approximately 100 cubic yards of waste-containing soil was removed during the excavation activities. The soil was transported and properly disposed of at OWL Landfill Disposal Facility in Jal, New Mexico. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing Site conditions. Disposal manifests are included in Appendix D.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation borehole BH01, collected at 0.5 feet bgs, indicated TPH concentrations that exceeded Site Closure Criteria but were in compliance at the terminal depth of 2 feet bgs, BH01A. Laboratory analytical results for all final confirmation soil samples collected indicated all COC concentrations were in compliance with the Site Closure Criteria. Waste-containing soil was present as indicated by confirmation floor soil samples FS01 through FS12 collected from 1-foot bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

## DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines preventing excavation of impacted soil. The impacted soil is limited to the area between active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil sample BH01A, collected at 2 feet bgs. The soil is laterally defined by delineation soil sample SS04 and confirmation soil samples SW01 and SW03. The estimated area of impacted soil left in place immediately adjacent to active production equipment measures approximately 388 square feet and a total of approximately 29 cubic yards of impacted soil remains in place. In addition, approximately 84 cubic yards of waste containing soil remains in place in 2,260 square feet. The waste-containing soil will be removed at the time of facility reconstruction or pad abandonment, whichever occurs first.

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

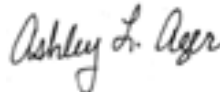
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2421149787 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Ashley L. Ager, M.S., P.G.  
Principal

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
Janey Paschal

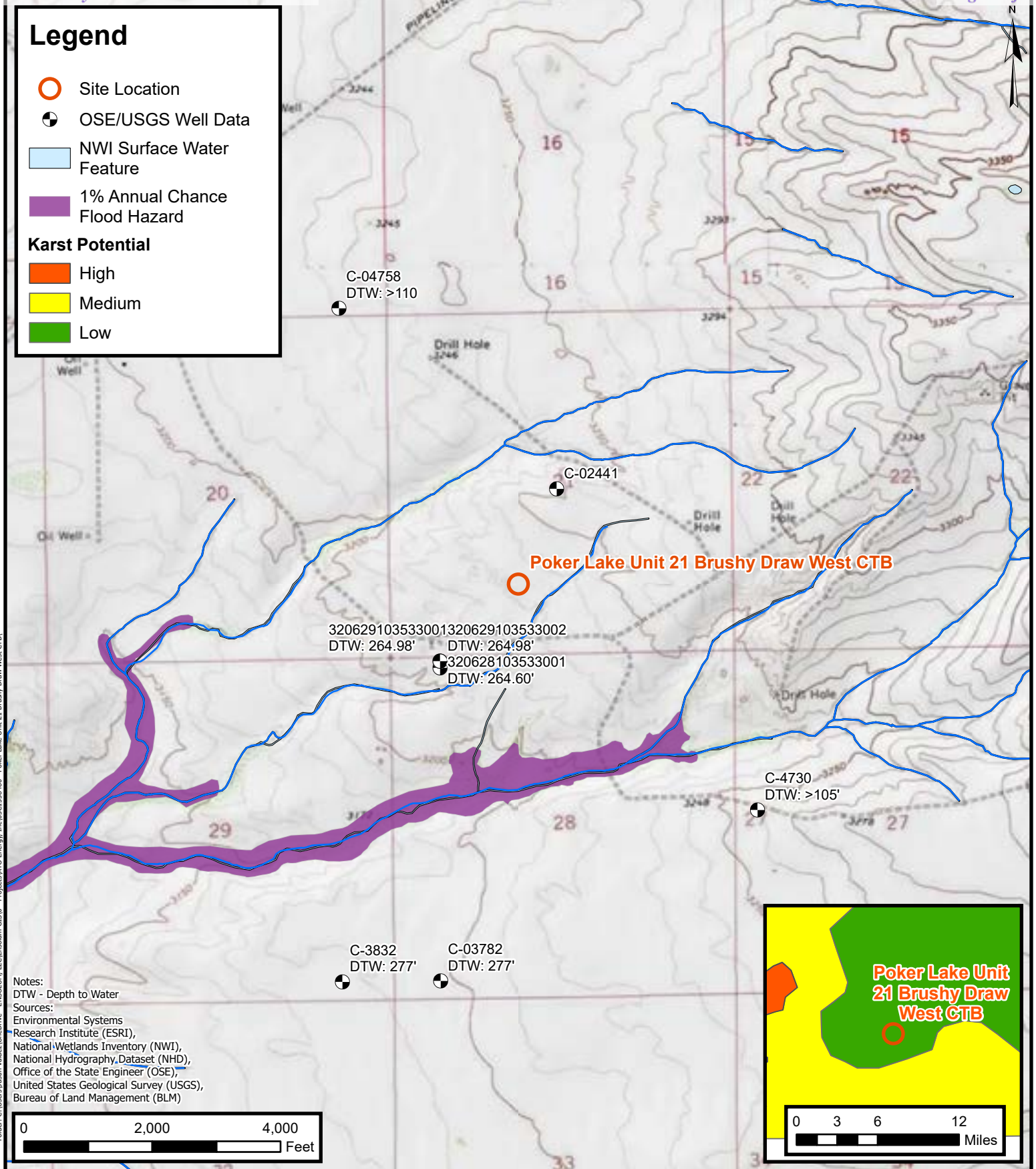
Appendices:

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



FIGURES



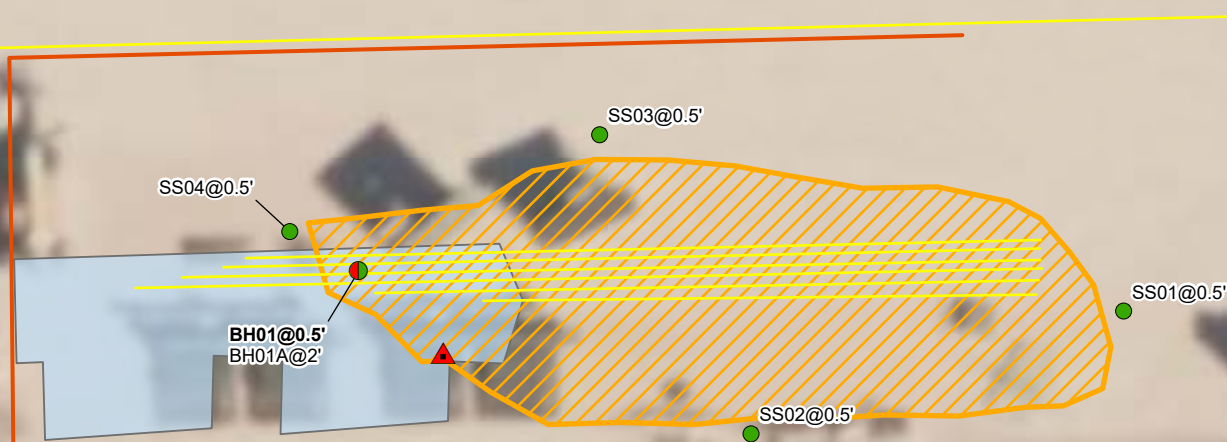


**Site Receptor Map**  
XTO Energy, Inc  
Poker Lake Unit 21 Brushy Draw West CTB  
Incident Number: nAPP2421149787  
Unit N, Section 21, T 25S, R 30E  
Eddy County, New Mexico

**FIGURE**  
**1**

## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

XTO Energy, Inc  
 Poker Lake Unit 21 Brushy Draw West CTB  
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 Unit N, Section 21, T 25S, R 30E  
 Eddy County, New Mexico

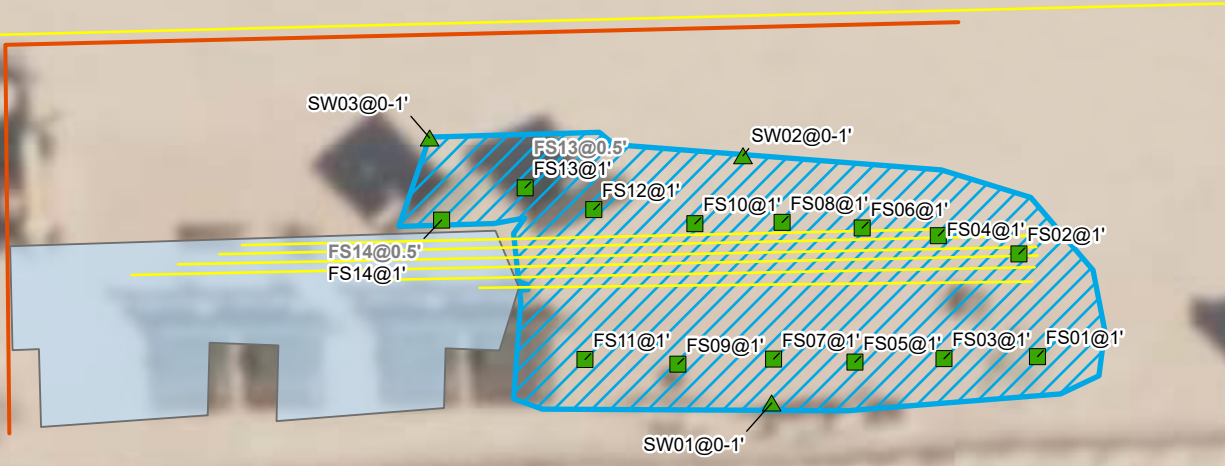
FIGURE

2

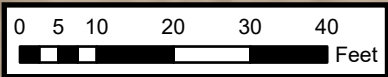


Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.  
Samples in bold indicate sample exceeded applicable closure criteria.  
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



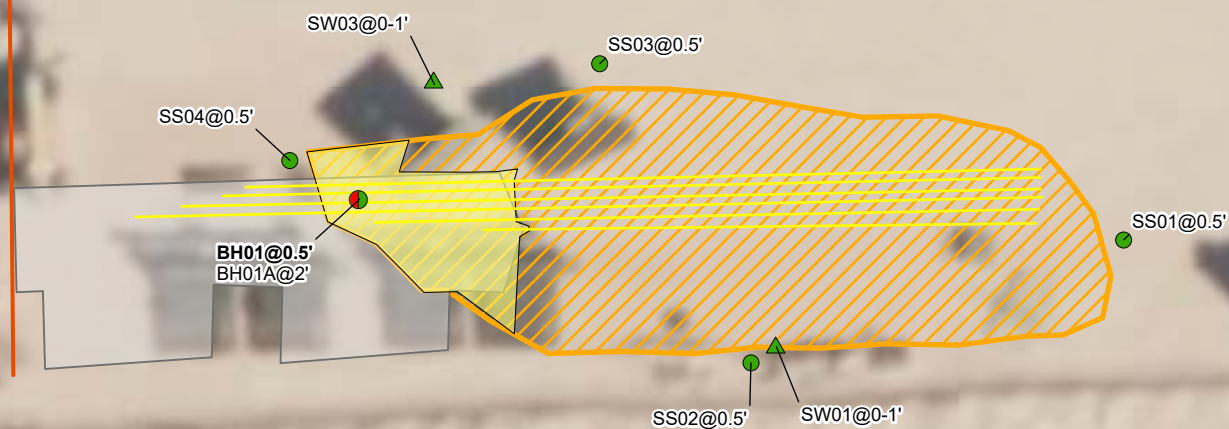
Excavation Soil Sample Locations

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Poker Lake Unit 21 Brushy Draw West CTB  
Incident Number: nAPP2421149787  
Unit N, Section 21, T 25S, R 30E  
Eddy County, New Mexico

FIGURE  
3

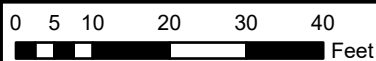
## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Deferral Area
- Production Equipment
- ▨ Release Extent



### Notes:

Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



## Area of Requested Deferral

XTO Energy, Inc  
 Poker Lake Unit 21 Brushy Draw West CTB  
 Incident Number: nAPP2421149787  
 Unit N, Section 21, T 25S, R 30E  
 Eddy County, New Mexico

FIGURE

4



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**POKER LAKE UNIT 21 BRUSHY DRAW WEST CTB**  
**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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
<b>Delineation Soil Samples</b>										
SS01	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	8/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	10/23/2024	0.5	<0.050	<0.300	<10.0	2,350	375	<b>2,350</b>	<b>2,725</b>	880
BH01A	10/23/2024	2	<0.050	<0.300	<10.0	15.2	<10.0	15.2	15.2	224
<b>Confirmation Soil Samples</b>										
FS01	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,180
FS02	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,700
FS03	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
FS04	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
FS05	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
FS06	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,400
FS07	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
FS08	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
FS09	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,880
FS10	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,800
FS11	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,640
FS12	10/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
FS13	10/25/2024	0.5	<0.050	<0.300	<10.0	2,480	35.0	<b>2,480</b>	<b>2,515</b>	<b>6,160</b>
FS13A	11/4/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS14	10/25/2024	0.5	<0.050	<0.300	<10.0	3,330	414	<b>3,330</b>	<b>3,744</b>	<b>13,200</b>
FS14A	11/4/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW01	10/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	10/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW03	11/4/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320628103533001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320628103533001 25S.30E.21.333424

Eddy County, New Mexico  
Latitude 32°06'28", Longitude 103°53'30" NAD27  
Land-surface elevation 3,207 feet above NAVD88  
The depth of the well is 288 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 measurement
1958-08-21			D 62610		2972.36	NGVD29	1	Z		
1958-08-21			D 62611		2974.00	NAVD88	1	Z		
1958-08-21			D 72019	233.00			1	Z		
1959-02-05			D 62610		2939.26	NGVD29	P	Z		
1959-02-05			D 62611		2940.90	NAVD88	P	Z		
1959-02-05			D 72019	266.10			P	Z		
1983-02-01			D 62610		2945.48	NGVD29	1	Z		
1983-02-01			D 62611		2947.12	NAVD88	1	Z		
1983-02-01			D 72019	259.88			1	Z		
1998-01-28			D 62610		2940.76	NGVD29	1	S		
1998-01-28			D 62611		2942.40	NAVD88	1	S		
1998-01-28			D 72019	264.60			1	S		

Explanation

Section	Code	Description
---------	------	-------------

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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title:** Groundwater for USA: Water Levels

**URL:** <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

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0.3 0.26 nadww01



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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320629103533002

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320629103533002 25S.30E.21.33342 A

Eddy County, New Mexico  
Latitude 32°06'29", Longitude 103°53'30" NAD27  
Land-surface elevation 3,209 feet above NAVD88  
The depth of the well is 280 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 measurement
1949-03-10			D 62610		2939.36	NGVD29	P		Z	
1949-03-10			D 62611		2941.00	NAVD88	P		Z	
1949-03-10			D 72019	268.00			P		Z	
1992-11-06			D 62610		2942.38	NGVD29	P		S	
1992-11-06			D 62611		2944.02	NAVD88	P		S	
1992-11-06			D 72019	264.98			P		S	

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
<a href="#">Parameter code</a>	62611	<a href="#">Groundwater level above NAVD 1988, feet</a>
Parameter code	72019	Depth to water level, feet below land surface
<a href="#">Referenced vertical datum</a>	NAVD88	<a href="#">North American Vertical Datum of 1988</a>
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)  
Page Last Modified: 2024-05-01 17:22:40 EDT  
0.35 0.29 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320629103533001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320629103533001 25S.30E.21.33342

Eddy County, New Mexico  
Latitude 32°06'29", Longitude 103°53'30" NAD27  
Land-surface elevation 3,209 feet above NAVD88  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 measurement
1959-02-05			D	62610	2944.36	NGVD29	1	Z		
1959-02-05			D	62611	2946.00	NAVD88	1	Z		
1959-02-05			D	72019	263.00		1	Z		

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
<a href="#">Parameter code</a>	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.
<a href="#">Measuring agency</a>		Not determined
Source of measurement		Not determined



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

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**Title:** Groundwater for USA: Water Levels


**URL:** <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>




Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-05-01 17:23:42 EDT

0.36 0.3 nadww02

 <b>ENSOLUM</b>		Sample Name: C-4730 (BH01)		Date: 4/17/2023				
		Site Name: PLU 27 Brushy Draw 161H						
		Incident No: NAPP2217546910 & NAPP2218236445						
		Job Number: 03c1558091						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.10164,-103.87624		Logged By: MR		Method: Air Rotary				
		Hole Diameter: 6" dia.		Total Depth: 105' bgs.				
Comments/Well Construction: no field screening conducted, lithology descriptions/observations only. Total depth to 105' bgs, dry hole.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0.5	0	CCHE	0-40', CALICHE, dry, light brown-off white, poorly sorted, some fine to medium grain sand.
					10	10		@10', some coarse gravel
					20	20		
					30	30		
					40	40	SC	40'-80', CLAYEY SAND, dry, reddish brown, poorly sorted, fine to medium grain.
					50	50		
					60	60		
					70	70		
					80	80		@80', light brown.
					90	90		
					100	100		
					105			
					110	110	TD	Total depth at 105 feet bgs.

 <b>ENSOLUM</b>		Sample Name: C-4758 (BH01)		Date: 8/08/2023				
		Site Name: PLU PC 17 BATTERY						
		Incident Number: nAPP2233951574						
		Job Number: 03C1558215						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.123284, -103.897084		Logged By: M. O'Dell/S. Welvang		Method: Air Rotary Rig				
		Hole Diameter: N/A		Total Depth: 110'				
Comments: No field screening was conducted.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
						10	CCHE	0-10'. Caliche w/sand. Tan to light brown, very fine to fine grained, well graded, subrounded to subangular grains, dry.
						20	SW	10-20'. Sand. Reddish brown, very fine to fine grained, subrounded to subangular grains, well graded, trace CCHE, dry.
						30	SW	20-30'. Sand w/CCHE mixture. Very fine to fine grained, CCHE medium to coarse grains, sand reddish brown, tan to light brown CCHE Well graded.
						40	SC	30-50'. Clayey sand w/ gravel. Brown, very fine to fine grained, gravel small grained, trace CCHE, dry.
						50		
						60	SP	50-80'. Sand, brown (trace red), very fine to fine grained, poorly graded, subrounded to subangular, dry.
						70		
						80		80-90'. Sand. Yellowish tan, very fine to fine grained, poorly graded, trace silty, trace orange sand, trace CCHE, dry.
						90		90'-110'. Sand. Brownish red, very fine to fine grained, poorly graded, subrounded to subangular, dry.
						100		
						110		110': stopped drilling and set casing to 110'.
TD at 110' bgs.								

READ INSTRUCTIONS ON BACK

Revised June 1991

APPLICATION TO APPROPRIATE UNDERGROUND WATERS  
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

'95 MAR 21 PM 12 54

A7941  
465599

1. Name and mailing address of applicant: STATE ENGINEER OFFICE File No. C-2441  
SANTA FE NEW MEXICO  
Byron W. Paschal  
Box 1847  
Pecos, TX 79772

Received: March 17, 1995

2. Describe well location under one of the following subheadings:

a.  $\frac{1}{4}$   $\frac{1}{4}$   $S \frac{1}{2}$  of Sec. 21 Twp. 25 South Rge. 30 East NMPH,  
in Eddy County.

b. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, New Mexico Coordinate System  
Zone in the \_\_\_\_\_ Grant.

3. Approximate depth (if known) 300 feet; outside diameter of casing 6 5/8 inches.

Name of driller (if known) \*\*\*

4. Use of water (check use applied for):

\_\_\_\_\_ One household, non-commercial trees, lawn and garden not to exceed one acre.

☒ Livestock watering.

\_\_\_\_\_ More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.

\_\_\_\_\_ Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.

\_\_\_\_\_ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.

\_\_\_\_\_ Prospecting, mining or drilling operations to discover or develop natural resources.

\_\_\_\_\_ Construction of public works, highways and roads.

If any of the last three items were marked, give name and nature of business under Remarks (Item 5).

5. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I, Byron W Paschal, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Byron W. Paschal, Applicant

3/14/95

By: \_\_\_\_\_

Date: \_\_\_\_\_

## ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1 & 4 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before March 31, 1996.

Donald T. Lopez, Acting State Engineer

~~Richard C. Cibak, Area Supervisor~~

By: Richard C. Cibak  
Richard C. Cibak, Area Supervisor

Date: March 20, 1995

File No. C-2441

\*\*\*PLEASE NOTE GENERAL CONDITION OF APPROVAL "B"

WR Filed: \_\_\_\_\_

## GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

## SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

## INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins  
District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Sumner, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins District No. 2, 1900 West Second Street, Roswell, NM 88201

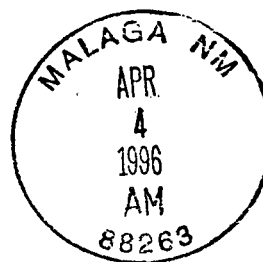
Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins  
District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins  
District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin  
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102



B. Paschal  
Box 1847  
PECOS, TX 79722



State Engineer's office  
District 11 - 1900 West Second St.  
Roswell, New Mexico 88201-1712

C-2241

April 4, 96

Dear Sir,

I did not drill the well.

Thanks

Byron Paschal

STATE ENGINEER OFFICE  
ROSWELL NEW MEXICO  
APR 11 1996  
8 11 52

C-2441



STATE OF NEW MEXICO

STATE ENGINEER OFFICE  
ROSWELL

THOMAS C. TURNEY  
State Engineer

DISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521  
APR 2 AM 9 52  
STATE ENGINEER OFFICE  
SANTA FE NEW MEXICO

April 1, 1996

FILE: C-2441

Byron W. Paschal  
Box 1847  
Pecos, TX 79772

Dear Mr. Paschal:

Application for Permit to Appropriate Underground Waters in Accordance With Section 72-12-1 New Mexico Statutes, approved March 20, 1995, required that a well record be filed in this office on or before March 31, 1996. To date this instrument has not been filed.

If this well has been drilled, it is very important that you advise this office the date the well was drilled and the name of the driller.

If this well has not been drilled, please advise this office. This permit expired on the above date and it will be necessary that you file a new application if you wish to drill a well.

Sincerely,

A handwritten signature in dark ink, appearing to read "R. Cibak".

Richard C. Cibak  
Area Supervisor

tg  
cc: Santa Fe



**STATE OF NEW MEXICO**

'95 MAR 21 PM 12 54

**STATE ENGINEER OFFICE**

**DONALD T. LOPEZ**  
Acting State Engineer  
STATE ENGINEER OFFICE  
SANTA FE, NEW MEXICO

**ROSWELL**

**DISTRICT II**  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

March 17, 1995

FILE: C-2441

Byron W. Paschal  
Box 1847  
Pecos, TX 79772

Dear Mr. Paschal:

Enclosed is your copy of Application to Appropriate Underground Waters in Accordance With Section 72-12-1 New Mexico Statutes, as numbered above, which has been approved subject to the conditions on the permit.

Please note General Condition of Approval "B", which states: "The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-1 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-1).

Please see that the well driller files the well record in this office within 10 days after completion of drilling.

Your rights under this permit will expire on March 31, 1996, unless the well is drilled and well record is filed in this office on or before the above date.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard C. Cibak".

Richard C. Cibak  
Area Supervisor

tg  
Enclosure  
cc: Santa Fe



## APPENDIX B

### Photographic Log

---

**Photographic Log**

XTO Energy, Inc  
 Poker Lake Unit 21 Brushy Draw West CTB  
 nAPP2421149787



Photograph: 1 Date: 8/9/2024  
 Description: Soil staining in release footprint  
 View: West



Photograph: 2 Date: 10/25/2024  
 Description: Excavation activities  
 View: Southwest



Photograph: 3 Date: 11/4/2024  
 Description: Excavation activities  
 View: Southwest



Photograph: 4 Date: 11/12/2024  
 Description: Backfilled excavation  
 View: West




## APPENDIX C

### Lithologic Soil Sampling Logs

---



 <b>ENSOLUM</b>		Sample Name: BH01		Date: 10/23/2024				
		Site Name: Poker Lake Unit 21 Brushy Draw West CTB						
		Incident Number: nAPP2421149787						
		Job Number: 03C1558480						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.110814, -103.888687			Logged By: JD		Method: Hand Auger			
			Hole Diameter: 5"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride field screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		(0-0.5') Pea gravel
D	1,070	10.0	N	BH01	0.5		CCHE	(0.5-2') CALICHE, tan, poorly sorted, medium grain no staining, no odor
D	308	8.4	N		1	1		
D	308	8.1	N	BH01A	2	2		
						Total Depth @ 2 feet bgs		



## APPENDIX D

### Disposal Manifests

---



**OWL Landfill Services, LLC**  
DBA: Northern Delaware Basin Landfill  
3889 Maple Ave, Suite 300  
Dallas, TX 75219  
505.231.1212  
ar@ndblandfill.com

COMPANY MAN: David Byrd  
(Authorized Agent's Printed Name and Title)  
SIGNATURE: \_\_\_\_\_  
COMPANY MAN EMAIL: \_\_\_\_\_  
COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**  
**0368346**

Part 1 - Generator

COMPANY NAME: X7-O  
LEASE: PLU91BDWCTR  
AFE #: Project-0361558408 API: Facility-FAPP2218153688  
RIG NAME: CC:2191941001 WELL #: \_\_\_\_\_  
STATE & COUNTY ORIGIN: Incident: uAPP2415532477

DATE: 11-12-24  
PHONE: \_\_\_\_\_  
QUANTITY: \_\_\_\_\_ ☐ BBLs  
\_\_\_\_\_ ☒ YARDS

Waste Description (check only one box)		<input type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Other: _____			

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☒ RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste (determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Sentex Mex YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 39  
ADDRESS: \_\_\_\_\_ TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: 0304  
DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_ ☐ AM ☐ PM  
DISPATCHER NAME: Willy Wiet DISPATCHER PHONE #: 932-209-0851

The following statement must be signed by the truck driver prior to unloading at disposal facility:  
"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."  
DRIVER: CORIN REINER DRIVER'S SIGNATURE: Corin Reiner  
(Driver's Name Printed)

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Part 3 - Disposal Facility

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One): ☐ Northern Delaware Basin Landfill  
2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 11/12/24 TIME IN: 2:51 AM/PM ☒ AM/PM ☐  
TIME OUT: \_\_\_\_\_ AM/PM

WASHOUT BY: \_\_\_\_\_  
WASHOUT: \_\_\_\_\_ TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
TCLP: PASS FAIL N/A  
TOX: PASS FAIL N/A

SERVICE NOTES: This is to certify that: \_\_\_\_\_ Employee (Printed Name) has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: Dean B.

White Copy: Disposal Facility Yellow: Transporter Pink: Generator



**OWL Landfill Services, LLC**

DBL: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: David Byrd  
(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #****0361853**COMPANY NAME: XTO 03C1558409DATE: 11.12.24LEASE: PLV 21 BD W CTR

PHONE: \_\_\_\_\_

AFE #: APP2415552477 API: APP2218153686QUANTITY: \_\_\_\_\_ ☐ BBLsRIG NAME: 2191941001

WELL #: \_\_\_\_\_

STATE & COUNTY ORIGIN: ED2☐ YARDS

Waste Description (check only one box)

☐ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☒ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Sentex Mex

YARD #: \_\_\_\_\_

WHP #: \_\_\_\_\_

TRUCK #: 62

ADDRESS: \_\_\_\_\_

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: \_\_\_\_\_

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

☐ PMNAME: Willy WilkerPHONE #: 4322090851

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Tad Curry

DRIVER'S SIGNATURE: \_\_\_\_\_

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 11/12/24TIME IN: 1230

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM

TESTING: \_\_\_\_\_

(Less than 50 MCR)

Shake Out:

H<sub>2</sub>O

1	2	3

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: David B. Bell

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #****0377526**COMPANY NAME: Superior W3C155844DATE: 11/12/24LEASE: Lease # 2415552477

PHONE: \_\_\_\_\_

AFE #: 6-2415552477 API: SA-1-AP1218153QUANTITY: \_\_\_\_\_ ☐ BBLsRIG NAME: PL-1-BD-WCTB WELL #: \_\_\_\_\_20 ☒ YARDSSTATE & COUNTY ORIGIN: Edley

Waste Description (check only one box)

☐ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☐ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Sam Tenney YARD #: \_\_\_\_\_ WHP #: 8214 TRUCK #: 296445ADDRESS: \_\_\_\_\_ TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: 0287DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_ ☐ AM ☐ PM DISPATCHER NAME: \_\_\_\_\_ DISPATCHER PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Adrian Lopez DRIVER'S SIGNATURE: Adrian Lopez

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 11/12/24TIME IN: 2:31 AM/PM ☒

TIME OUT: \_\_\_\_\_ AM/PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/ATCLP: PASS FAIL N/ATOX: PASS FAIL N/ANORM TESTING: P

(Less than 50 MCR)

H<sub>2</sub>O

Shake Out:		
1	2	3

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_ Employee (Printed Name) has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: Adrian Lopez

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: Daniel Boyd

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #****0377527****Part 1 - Generator**COMPANY NAME: STW paper 0361558409DATE: 11/12/24LEASE: Truck: NAPP2415552477

PHONE: \_\_\_\_\_

AFE #: CC: 2191941001API: Facility: LAPP218153686

QUANTITY: \_\_\_\_\_

☐ BBLsRIG NAME: P-021 BOWLSB

WELL #: \_\_\_\_\_

☒ YARDSSTATE & COUNTY ORIGIN: Elm

Waste Description (check only one box)

☐ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

**Part 2 - Transporter****TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Scm Tex Mex

YARD #: \_\_\_\_\_

WHP #: 8214TRUCK #: 29645

ADDRESS: \_\_\_\_\_

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: 0287

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

☐ PM

NAME: \_\_\_\_\_

PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Adrian HinesDRIVER'S SIGNATURE: Adrian Hines

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 11/12/24TIME IN: 4:47

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER:

PASS

FAIL

N/A

TCLP:

PASS

FAIL

N/A

TOX:

PASS

FAIL

N/A

NORM  
TESTING:(Less than 50  
MCR)

Shake Out:

1

2

3

H<sub>2</sub>O  
5

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: Adrian Hines

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

**Part 3 - Disposal Facility**





**OWL Landfill Services, LLC**  
 DBA: Northern Delaware Basin Landfill  
 3889 Maple Ave. Suite 300  
 Dallas, TX 75219  
 505.231.1212  
 ar@ndblandfill.com

COMPANY MAN: Daniel B. [Signature]  
 (Authorized Agent's Printed Name and Title)  
 SIGNATURE: \_\_\_\_\_  
 COMPANY MAN EMAIL: \_\_\_\_\_  
 COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**  
 0375793

**Part 1 - Generator**

COMPANY NAME: XTO, MAP 221815364  
 LEASE: PLU 21 West Patey  
 AFE #: 241555247 API: 236558459  
 RIG NAME: 251841001 WELL #: 120218DW  
 STATE & COUNTY ORIGIN: La Brea

DATE: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ ☐ BBLs  
 \_\_\_\_\_ ☐ YARDS

Waste Description (check only one box)		<input type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Other: _____			

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- ☐ **RCRA EXEMPT:** Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDIL, Accepts certifications on a per load basis only)
- ☐ **RCRA NON-EXEMPT:** Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)
- ☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

**Part 2 - Transporter**

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**

COMPANY NAME: Scoutex mcl YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 36  
 ADDRESS: \_\_\_\_\_ TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: 027  
 DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_ ☐ AM ☐ PM  
 DISPATCHER NAME: \_\_\_\_\_ DISPATCHER PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**

DRIVER: Leibert Hume DRIVER'S SIGNATURE: \_\_\_\_\_  
 (Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

**Part 3 - Disposal Facility**

**TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One): ☒ Northern Delaware Basin Landfill  
 2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 11/12/24 TIME IN: 12:41 AM/PM ☒ AM ☐ PM  
 TIME OUT: \_\_\_\_\_

WASHOUT BY: \_\_\_\_\_  
 WASHOUT: \_\_\_\_\_ TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
 TCLP: PASS FAIL N/A  
 TOX: PASS FAIL N/A

**NORM TESTING:** \_\_\_\_\_  
 (Less than 50 MCR)

Shake Out: 283783

1	2	3

Gallon Test: \_\_\_\_\_

SERVICE NOTES:  
 This is to certify that: \_\_\_\_\_  
 Employee (Printed Name) Evan G  
 EMPLOYEE SIGNATURE: \_\_\_\_\_  
 Has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

White Copy: Disposal Facility Yellow: Transporter Pink: Generator





## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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August 21, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BD WEST CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/15/2024  
Reported: 08/21/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO - 32.11145-103.88516

Sampling Date: 08/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 01 0.5' (H244953-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/15/2024  
Reported: 08/21/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO - 32.11145-103.88516

Sampling Date: 08/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 02 0.5' (H244953-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/15/2024  
Reported: 08/21/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO - 32.11145-103.88516

Sampling Date: 08/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 03 0.5' (H244953-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84		
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46		
Total BTEX	<0.300	0.300	08/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/15/2024  
Reported: 08/21/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO - 32.11145-103.88516

Sampling Date: 08/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 04 0.5' (H244953-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84		
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	227	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	216	108	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### 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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Cardinal Laboratories

\*=Accredited Analyte

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

A handwritten signature in cursive script, appearing to read "C. D. Keene", written in dark ink.

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Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Tracy Hillard				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy Inc															
City: Midland - Carlsbad State: TX Zip: 79701				Attn: Amy Ruth															
Phone #: 575 937 3906 Fax #:				Address: 3104 E Green St															
Project #: 3C1558 4957 4950 Project Owner: XTO				City: Carlsbad															
Project Name: PLU 213D West CTS				State: NM Zip: 88220															
Project Location: 32.11145, -103.85816				Phone #:															
Sampler Name: Joshua Bodey				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	10/18/19 OR (C)COMP	# CONTAINERS	MATRIX					PRESERV	SAMPLING		DATE	TIME	Chloride	TPH	STC		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER	ACID/BASE						ICE/COOL	OTHER
4244953	1 5501	0.5	6	1									4/9/24	1330	X	X	X		
	2 5502													1335					
	3 5503													1340					
	4 5504	0.5	6	1									4/9/24	1345	X	X	X		

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Relinquished By:	Date: 8.15.24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 8.15.24	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C: 39.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	THillard@ensolum.com, T.Norrissey@ensolum.com
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 33.0	CHECKED BY: (Initials)	REMARKS: Incident: APP 2-121536134 CC: 1667351001
			APP 2-12149787 2191241001
			Turnaround Time: 5 day Standard Rush <input checked="" type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID: 8772 #103
			Corrected Temp. °C: -0.60

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



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

October 28, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BD WEST CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/24/24 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/24/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/23/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 01 .5' (H246489-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.17	109	2.00	8.20	
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/25/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	2350	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	375	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/24/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/23/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 01A 2' (H246489-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.17	109	2.00	8.20		
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31		
Total BTEX	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/25/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	15.2	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

---

### 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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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Tracy Hillard				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.															
City: Carlsbad State: NM Zip: 88220				Attn: Colton Brown															
Phone #: 575-937-3906 Fax #:				Address: 3104 E. Green St.															
Project #: 03C1558480 Project Owner: XTO				City: Carlsbad															
Project Name: PLU 21 Brushy Draw West CTB				State: NM Zip: 88220															
Project Location: 32.11145, -103.88816				Phone #:															
Sampler Name: Jesse Dorman				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	MATRIX	PRESERV.	SAMPLING														
			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID-BASE	ICE / COOL	OTHER	DATE	TIME	BTEX	TPH	CHLORIDE				
1246489	Bh01	-5'	G1	/	/	/	/	/	/	/	10/20/2009	1235	/	/	/				
2	Bh01A	2	G1	/	/	/	/	/	/	/			/	/	/				
SD																			

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Relinquished By:	Date: 10-24-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1445		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	BBell@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com	
	Time:		REMARKS:	
			Cost Center: 2191941001 Incident ID: nAPP2421149787	
Delivered By: (Circle One)	Observed Temp. °C: -0.7	Sample Condition: Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -1.3	Yes <input type="checkbox"/> No <input type="checkbox"/>	YO	Rush <input type="checkbox"/>
				Bacteria (only) Sample Condition
				Cool Intact Observed Temp. °C
				Yes <input type="checkbox"/> No <input type="checkbox"/>
				Corrected Temp. °C

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



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

October 28, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BD WEST CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/25/24 15:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 01 1' (H246525-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.13	107	2.00	5.94	
Toluene*	<0.050	0.050	10/25/2024	ND	2.08	104	2.00	6.33	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.10	105	2.00	6.06	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.27	105	6.00	6.25	
Total BTX	<0.300	0.300	10/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/28/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	195	97.4	200	3.42	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	192	96.2	200	0.0707	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 02 1' (H246525-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEX	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	10/28/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 03 1' (H246525-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEX	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	10/28/2024	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 04 1' (H246525-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEx	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	10/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 05 1' (H246525-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEx	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	10/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 06 1' (H246525-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 07 1' (H246525-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 08 1' (H246525-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTEX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	224	112	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	217	108	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 09 1' (H246525-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEX	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	10/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 10 1' (H246525-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 11 1' (H246525-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4		
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5		
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4		
Total BTEX	<0.300	0.300	10/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	10/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 12 1' (H246525-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTEX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	2480	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	315	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 13 .5' (H246525-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	3330	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	414	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 14 .5' (H246525-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTX	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 01 0-1' (H246525-15)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTEx	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/25/2024  
Reported: 10/28/2024  
Project Name: PLU 21 BD WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145-103.88816

Sampling Date: 10/25/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 02 0-1' (H246525-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.09	105	2.00	12.4	
Toluene*	<0.050	0.050	10/25/2024	ND	2.16	108	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.18	109	2.00	10.5	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.49	108	6.00	10.4	
Total BTEx	<0.300	0.300	10/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2024	ND	207	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	199	99.7	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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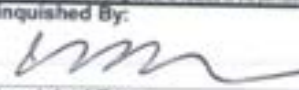
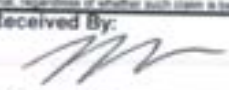
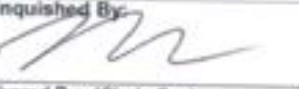
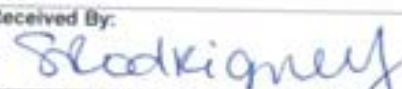

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Company Name: <b>Ensolum, LLC</b> Project Manager: <b>Tracy Hillard</b> Address: <b>3122 National Parks Hwy</b> City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b> Phone #: <b>575-937-3906</b> Fax #: <b></b> Project #: <b>03C1558480</b> Project Owner: <b>XTO</b> Project Name: <b>PLU 21 Brushy Draw West CTB</b> Project Location: <b>32.11145, -103.88816</b> Sampler Name: <b>Jesse Dorman</b>				<b>BILL TO</b> P.O. #: <b></b> Company: <b>XTO Energy Inc.</b> Attn: <b>Colton Brown</b> Address: <b>3104 E. Green St.</b> City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b> Phone #: <b></b> Fax #: <b></b>				<b>ANALYSIS REQUEST</b>											
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	<input type="checkbox"/> GRAB OR <input type="checkbox"/> COMP.	<input type="checkbox"/> CONTAINERS	MATRIX <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:	PRESERV <input checked="" type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER:	SAMPLING DATE TIME	BTEX	TPH	CHLORIDE									
H240525	FS01	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6/25/24 1000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
2	FS02	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
3	FS03	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
4	FS04	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
5	FS05	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1025	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
6	FS06	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
7	FS07	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
8	FS08	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
9	FS09	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1045	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
10	FS10	1'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
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 services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.																			
Relinquished By: 		Date: 10/25/24 Time: 1430		Received By: 		Verbal Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Add'l Phone #: <b></b> All Results are emailed. Please provide Email address: BBeilis@ensolum.com      TMorrissey@ensolum.com      kthomason@ensolum.com													
Relinquished By: 		Date: 10/25/24 Time: 1538		Received By: 		REMARKS: Cost Center: 2191941001      Incident ID: nAPP2421149787													
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 2.0 Corrected Temp. °C: 2.0		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) 		Turnaround Time: #40 - 00 Thermometer ID: #113 Correction Factor: 0.5°C		Standard Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C Corrected Temp. °C							

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Tracy Hillard <b>Address:</b> 3122 National Parks Hwy <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-937-3906 <b>Fax #:</b> <b>Project #:</b> 03C1558480 <b>Project Owner:</b> XTO <b>Project Name:</b> PLU 21 Brushy Draw West CTB <b>Project Location:</b> 32.11145, -103.88816 <b>Sampler Name:</b> Jesse Dorman				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> XTO Energy Inc. <b>Attn:</b> Colton Brown <b>Address:</b> 3104 E. Green St. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>													
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	Sample Depth (feet)	CONTAINERS	MATRIX				PRESERV	SAMPLING												
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	BTEX	TPH	CHLORIDE					
H244USAS	FS11	1	✓									6/25/24	1055								
11	FS12	1	✓										1100								
12	FS13	-5	✓										1150								
13	FS14	-5	✓										1155								
14	SW01	0-1	✓										1130								
15	SW02	0-1	✓										1135								
16																					

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Relinquished By:	Date: 10/25/24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1430		All Results are emailed. Please provide Email address:	
Relinquished By:	Date: 10/25/24	Received By:	BBell@ensolum.com TMorrissey@ensolum.com kthomason@ensolum.com	
	Time: 1538		REMARKS:	
Delivered By: (Circle One)	Observed Temp. °C: 2.0	Sample Condition:	Cost Center: 2191941001 Incident ID: nAPP2421149787	
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 2.0	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C	
			Thermometer ID #113 Correction Factor 0.5°C	

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



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---

November 06, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BRUSHY DRAW WEST CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/05/24 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/05/2024  
Reported: 11/06/2024  
Project Name: PLU 21 BRUSHY DRAW WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145,-103.88816

Sampling Date: 11/04/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 13 A 1' (H246723-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.25	113	2.00	0.275	
Toluene*	<0.050	0.050	11/05/2024	ND	2.15	107	2.00	0.794	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	1.84	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.41	107	6.00	1.81	
Total BTEX	<0.300	0.300	11/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	190	94.9	200	0.853	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	188	93.9	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/05/2024  
Reported: 11/06/2024  
Project Name: PLU 21 BRUSHY DRAW WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145,-103.88816

Sampling Date: 11/04/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 14 A 1' (H246723-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2024	ND	2.25	113	2.00	0.275		
Toluene*	<0.050	0.050	11/05/2024	ND	2.15	107	2.00	0.794		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	1.84		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.41	107	6.00	1.81		
Total BTEx	<0.300	0.300	11/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	190	94.9	200	0.853	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	188	93.9	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/05/2024  
Reported: 11/06/2024  
Project Name: PLU 21 BRUSHY DRAW WEST CTB  
Project Number: 03C1558480  
Project Location: XTO 32.11145,-103.88816

Sampling Date: 11/04/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 03 0-1' (H246723-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2024	ND	2.25	113	2.00	0.275		
Toluene*	<0.050	0.050	11/05/2024	ND	2.15	107	2.00	0.794		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	1.84		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.41	107	6.00	1.81		
Total BTX	<0.300	0.300	11/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	190	94.9	200	0.853	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	188	93.9	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

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A handwritten signature in cursive script, appearing to read "Cley D. Keene", written in black ink.

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Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Tony Hilard</u>				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.															
City: Carlsbad State: NM Zip: 88220				Attn: <u>Amy Ruth Colton Brown</u>															
Phone #: <u>575 951 3906</u> Fax #:				Address: 3104 E Green St															
Project #: <u>03C1558480</u> Project Owner: XTO				City: Carlsbad															
Project Name: <u>PLU 21 Brushy Draw West CTB</u>				State: NM Zip: 88220															
Project Location: <u>32.11145 -103.86816</u>				Phone #:															
Sampler Name: <u>Joshua Boxley</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(O)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	DETECT	
<u>H246200</u>																			
1	FS13A	1	C	1			X					X		11.4.24	1100	X	X	X	
2	FS14A	1	C	1			X					X		11.4.24	1445	X	X	X	
3	SW03	0-1	C	1			X					X		11.4.24	1450	X	X	X	

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Relinquished By: <u>[Signature]</u>	Date: <u>11.5.24</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #:
	Time: <u>1330</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	<u>THillard</u> @ensolum.com, <u>TMorrissey</u> @ensolum.com, <u>kthomason</u> @ensolum.com
	Time:		REMARKS: <u>WAPP 2421497-87</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>19.2</u>	Sample Condition: Cool Intact	Cost Center: <u>2191941001</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>9.32</u>	Checked By: <u>[Signature]</u>	Turnaround Time: <u>24hr</u> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
			Thermometer ID: <u>#113</u> <u>#140</u>
			Correction Factor: <u>0.0°C</u>
			Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 425203

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425203
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421149787
Incident Name	NAPP2421149787 POKER LAKE UNIT 21 BRUSHY DRAW WEST CTB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 21 BRUSHY DRAW WEST CTB
Date Release Discovered	07/28/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 22 BBL   Recovered: 0 BBL   Lost: 22 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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 2

Action 425203

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 425203
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/27/2025
--	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 425203

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 425203
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2725
GRO+DRO (EPA SW-846 Method 8015M)	2350
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/09/2024
On what date will (or did) the final sampling or liner inspection occur	11/04/2024
On what date will (or was) the remediation complete(d)	11/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	2505
What is the estimated volume (in cubic yards) that will be reclaimed	100
What is the estimated surface area (in square feet) that will be remediated	2505
What is the estimated volume (in cubic yards) that will be remediated	100
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
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General Information  
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**Santa Fe, NM 87505**

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Action 425203

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425203
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**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	OWL LANDFILL JAL [JEG1635837366]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/27/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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Action 425203

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425203
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Surface lines, risers
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	388
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	29
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	PLU 21 BRUSHY DRAW WEST CTB [fAPP2218153464]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/27/2025

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Action 425203

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 425203
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	397558
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2800

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 425203

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425203
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral and variance request are approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	5/13/2025