



June 10, 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 Addendum
PLU 22 Dog Town Draw CVB
Incident Number nAPP2402449008
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request Addendum* to provide an update to the depth to groundwater determination activities performed at the PLU 22 Dog Town Draw CVB (Site, Figure 1), in response to the denial of the original *Deferral Request*, dated July 15, 2024. In the denial, the New Mexico Oil Conservation Division (NMOCD) expressed concern that depth to groundwater was not adequately determined.

All of the release details regarding the incident, Site characterization, and remediation conducted can be referenced in the original *Deferral Request* attached in Appendix A. NMOCD denied the submitted *Deferral Request* for Incident Number nAPP2402449008 on August 8, 2024, for the following reason:

The variance for the preferred distance of the nearest depth to groundwater data guideline is denied. If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not detected after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.

Based on the additional investigation of depth to groundwater detailed herein, XTO is requesting deferral of final remediation for Incident Number nAPP2402449008 until the Site is reconstructed and/or the well pad is abandoned.

DEPTH TO GROUNDWATER DETERMINATION

On January 16, 2025, New Mexico Office of State Engineer (NMOSE) permitted soil boring (C-4911) was advanced to a depth of 105 feet below ground surface (bgs) via hollow stem auger drilling method. The borehole was located approximately 0.3 miles southeast of the Site and is depicted on Figure 2. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix B. The borehole was left open for over 72 hours to allow for potential slow inflow of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly plugged and abandoned using hydrated bentonite chips (Appendix B). Based on the confirmed depth to water greater than 105 feet bgs, the Table I Closure Criteria identified in the original *Deferral Request* are applicable and appropriate for protection of groundwater at this Site. Photographic documentation was collected during the drilling activities and a Photographic Log is included in Appendix C.

XTO Energy, Inc
Deferral Request Addendum
PLU 22 Dog Town Draw CVB

DEFERRAL REQUEST

A soil boring installed within 0.3 miles of the Site confirmed depth to groundwater greater than 105 feet bgs; therefore, the Site-specific Closure Criteria presented in the original *Deferral Request* was correctly applied. Based on excavation to the maximum extent practicable (MEP), XTO respectfully requests deferral for Incident Number nAPP2402449008 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.

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



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

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

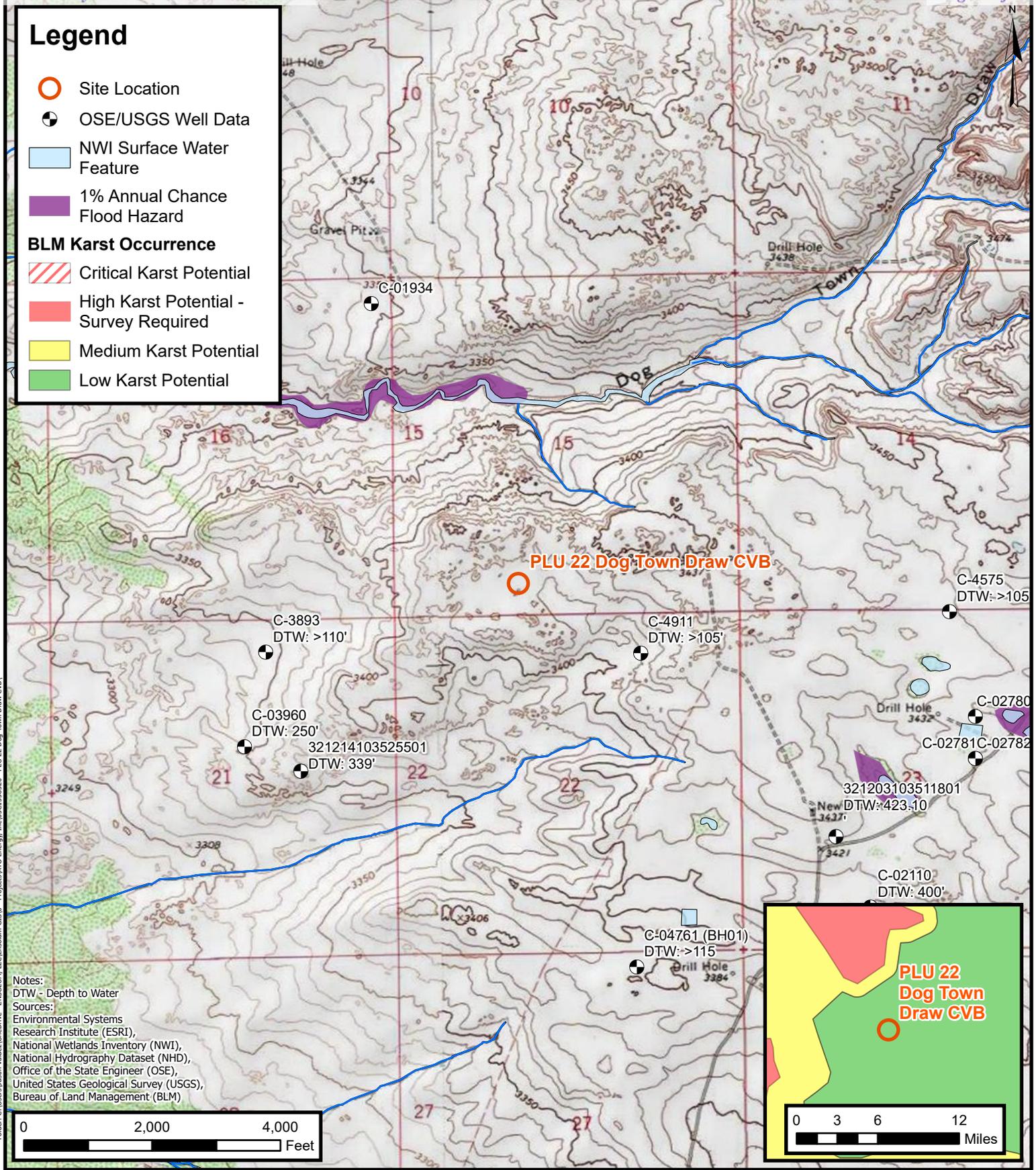
Attachments:

Figure 1 Site Receptor Map
Figure 2 Groundwater Verification Boring Location

Appendix A *Deferral Request*, July 15, 2024
Appendix B Well Record and Log
Appendix C Photographic Log



FIGURES



Site Receptor Map

XTO Energy, Inc
 PLU 22 Dog Town Draw CVB
 Incident Number: nAPP2402449008
 Unit B, Section 22, T 24S, R 30E
 Eddy County, New Mexico

FIGURE
1



Legend

- C-4911 NM Office of the State Engineer (OSE) Permitted Soil Boring
- ▲ Site Location
- Release Extent



PLU 22 Dog Town Draw CVB



C-4911



Sources: Environmental Systems Research Institute (ESRI)



Groundwater Verification Boring Location

XTO Energy, Inc
 PLU 22 Dog Town Draw CVB
 Incident Number: nAPP2402449008
 Unit B, Section 22, T 24S, R 30E
 Eddy County, New Mexico

FIGURE

2



APPENDIX A

Deferral Request, July 15, 2024

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Deferral Request C-141 (C-141-V-DEFERRAL) Application

Submission Information

Submission ID:	364662	Districts:	Artesia
Operator:	[5380] XTO ENERGY, INC	Counties:	Eddy
Description:	XTO ENERGY, INC [5380] , PLU 22 Dog Town Draw CVB , nAPP2402449008		
Status:	REJECTED		
Status Date:	08/08/2024		
References (1):	nAPP2402449008		

Foms

Attachments: [Proposed Technique, Scaled Site Map, Estimated Volume, Closure Criteria, Proposed Schedule, Photographs, Lab Samples OR Liner Integrity, Remediation Activities](#)

Questions

Prerequisites

Incident Operator	[5380] XTO ENERGY, INC
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	Unavailable.
Incident Facility	Unavailable.

Location of Release Source

Please answer all the questions in this group.

Site Name	PLU 22 Dog Town Draw CVB
Date Release Discovered	01/17/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No

to fresh water

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Freeze Separator Crude Oil Released: 10 BBL Recovered: 6 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Nature and Volume of Release (continued)

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission.

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 f 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 shc 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 do 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: Melanie Collins
 Title: Regulatory Analyst
 Email: Melanie.Collins@exxonmobil.com
 Date: 01/24/2024

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission **Yes**
 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.

Have the lateral and vertical extents of contamination been fully delineated **Yes**
 Was this release entirely contained within a lined containment area **No**

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	1090
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6780
GRO+DRO	(EPA SW-846 Method 8015M)	6140
BTEX	(EPA SW-846 Method 8021B or 8260B)	79
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated beginning and completing the remediation.

On what estimated date will the remediation commence **04/03/2024**
 On what date will (or did) the final sampling or liner inspection occur **06/14/2024**
 On what date will (or was) the remediation complete(d) **06/14/2024**
 What is the estimated surface area (in square feet) that will be reclaimed **1000**
 What is the estimated volume (in cubic yards) that will be reclaimed **40**
 What is the estimated surface area (in square feet) that will be remediated **1000**
 What is the estimated volume (in cubic yards) that will be remediated **40**

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the plan then it should consult with the division to determine if another remediation plan submission is required.

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) **Yes**
 Which OCD approved facility will be used for off-site disposal **HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]**
 OR which OCD approved well (API) will be used for off-site disposal **Not answered.**
 OR is the off-site disposal site, to be used, out-of-state **Not answered.**
 OR is the off-site disposal site, to be used, an NMED facility **Not answered.**
 (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) **Not answered.**
 (In Situ) Soil Vapor Extraction **Not answered.**
 (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) **Not answered.**
 (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) **Not answered.**
 (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) **Not answered.**
 Ground Water Abatement pursuant to 19.15.30 NMAC **Not answered.**

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 do 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: Alan Romero
 Title: Regulatory Analyst
 Email: alan.romero1@exxonmobil.com
 Date: 07/16/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the ren then it should consult with the division to determine if another remediation plan submission is required.

Deferral Requests Only

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

- Requesting a deferral of the remediation closure due date with the approval of this submission **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 **Immediately adjacent and under active production equipment**
- What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted **3200**
- What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted **240**

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 facili 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.

- Enter the facility ID (##) on which this deferral should be granted **PLU 22 DTD CVB [fAPP2329131432]**
- 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**

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 anticipa beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or f 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 shc 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 do 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: Alan Romero
 Title: Regulatory Analyst
 Email: alan.romero1@exxonmobil.com
 Date: 07/16/2024

Sampling Event Information

- Last sampling notification (C-141N) recorded **352787**
- Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC **06/14/2024**
- What was the (estimated) number of samples that were to be gathered **20**
- What was the sampling surface area in square feet **4000**

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**

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

rhamlet (8/8/2024), XTO's deferral request is denied. The variance for the preferred distance of the nearest depth to groundwater data guideline is denied. If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not detected after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.

[Go Back](#)



July 15, 2024

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Deferral Request
PLU 22 Dog Town Draw CVB
Incident Number nAPP2402449008
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document site assessment, excavation, and soil sampling activities at the PLU 22 Dog Town Draw CVB (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2402449008 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 15, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21237°, -103.87057°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 17, 2024, a separator froze resulting in the release of approximately 10 barrels (bbls) of crude oil onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 6 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on an Initial C-141 Application (C-141) on January 24, 2024. The release was assigned Incident Number nAPP2402449008.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a nearby cathodic protection well. In August, 2015, a New Mexico Office of the State Engineer (NMOSE) permitted cathodic protection well (C-3893) was drilled approximately 0.75 miles southeast of the Site. C-3893 was advanced to a total depth of 600 feet bgs. No moisture or groundwater was encountered during drilling activities. In addition, multiple NMOSE permitted wells and United States Geological Survey (USGS) wells within 1.5 miles of the Site indicate depth to groundwater exceeds 100

feet bgs. All wells used to determine depth to groundwater are depicted on Figure 1. Soil boring C-3893 Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 1,650 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

XTO acknowledges that there is no existing water well with depth to groundwater data within ½ mile of the Site, which NMOCD prefers for depth to water estimates. 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 distance of the nearest depth to groundwater data guideline.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

On March 5, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected within the release extent from a depth of approximately 0.5 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during the site assessment and a Photographic Log 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 EPA Method SM4500.

Laboratory analytical results for delineation soil samples SS01 through SS06 indicated all COC concentrations were in compliance with Closure Criteria and successfully defined the lateral extent of

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the release. Based on visible staining in the release area, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On April 3 and 4, 2024, Ensolum personnel were at the Site to oversee delineation and excavation activities. Eight potholes (PH01 through PH08) were advanced via hand auger and backhoe within the release extent to assess the vertical extent of the release. Delineation soil samples were collected at ranging from 0.5 feet bgs to 4.5 feet bgs. Soil samples were field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

Impacted soil was then excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed using a backhoe. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chlorides. The excavation occurred on the well pad near production equipment and XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment. Following removal of impacted soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation soil samples FS01 through FS05 were collected from the floor of the excavation at depths ranging from 1-foot to 1.5 feet bgs. Excavation sidewall soil samples SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from ground surface to 1.5 feet bgs.

The delineation and excavation soil samples were collected, handled, and analyzed following the same procedures as described above at Cardinal in Hobbs, New Mexico. The excavation extent and excavation soil sample locations are depicted on Figure 3.

Between May 15, 2024 and June 14, 2024, Ensolum personnel returned to the site for further delineation activities near the release extent to laterally and vertically define the remaining impacted soil extent. Delineation soil samples SS01 and SS03 were advanced via hand auger to 1-foot and 2 feet bgs, respectively. Delineation soil samples SS07 and SS08 were sampled at 0.5 feet bgs. Delineation soil samples SS09 through SS12 were sampled at depths ranging from 0.5 feet and 1-foot bgs.

The final excavation extent measured approximately 1,000 square feet. A total of approximately 40 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01, PH03, and PH04 collected at 0.5 feet bgs indicated the COC concentrations exceeded Closure Criteria for TPH-GRO/ TPH-DRO and/or TPH. Delineation soil samples SS07, SS08, and PH06 collected at 0.5 feet bgs were in compliance with Closure Criteria for TPH. Delineation soil samples PH01 through PH08 were in compliance with Closure Criteria for the terminal depths ranging from 2 feet to 4 feet bgs. SS01 through SS06 were all in compliance with Closure Criteria and successfully define the lateral extent of the release.

Laboratory analytical results for excavation floor soil samples FS01 through FS05 indicated the COC concentrations met Closure Criteria and reclamation requirements. Excavation sidewall soil sample

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SW01 and SW03 were in compliance with Closure Criteria. Sidewall sample SW02 laboratory analytical results indicated TPH-GRO/TPH-DRO/TPH concentrations exceeded the Closure Criteria however, no additional excavation could be completed due to proximity with active production equipment. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment. The estimated area of remaining impacted soil measures an area of approximately 3,200 square feet, and approximately 240 cubic yards of impacted soil remains in place, assuming a depth of 2 feet bgs based on delineation and confirmation soil sample laboratory analytical results near the deferral area. The impacted soil is limited to the area beneath active production equipment and surface piping where remediation would require major facility deconstruction. The deferral area is vertically defined by delineation soil samples PH01 through PH08 and all excavation soil samples. The release is laterally defined by delineation soil samples SS01 through SS12. The proposed deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4. The excavation will be backfilled with caliche material purchased locally.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Based on the presence of active production equipment and process piping within the release area, and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2402449008 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.

Sincerely,
Ensolum, LLC

Handwritten signature of Tracy Hillard in black ink.

Tracy Hillard
Staff Engineer

Handwritten signature of Ashley L. Ager in black ink.

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

cc: Amy Ruth, XTO
Amanda Garcia, XTO
BLM

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Proposed Deferral Area

XTO Energy, Inc
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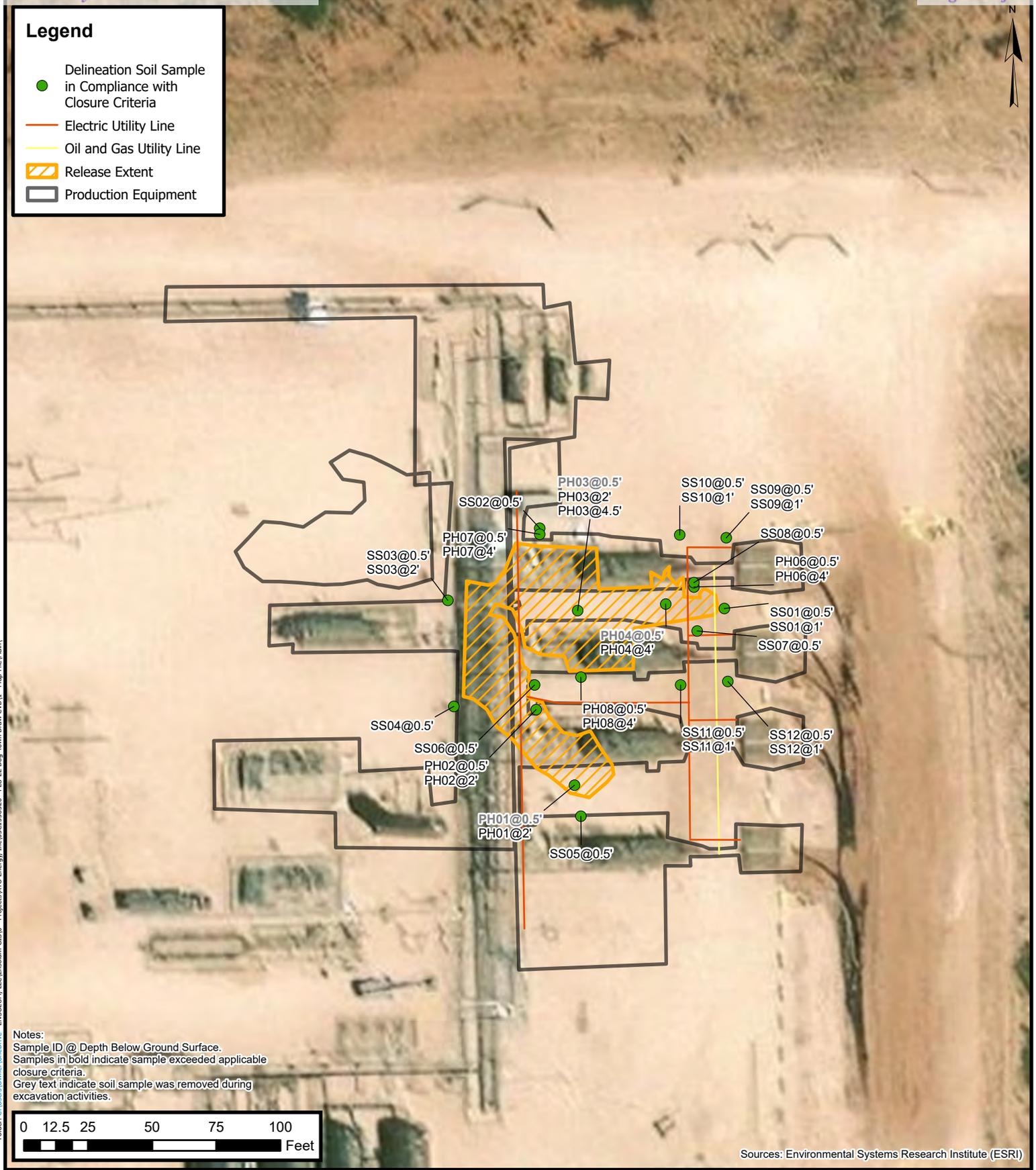
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent
- Production Equipment



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.



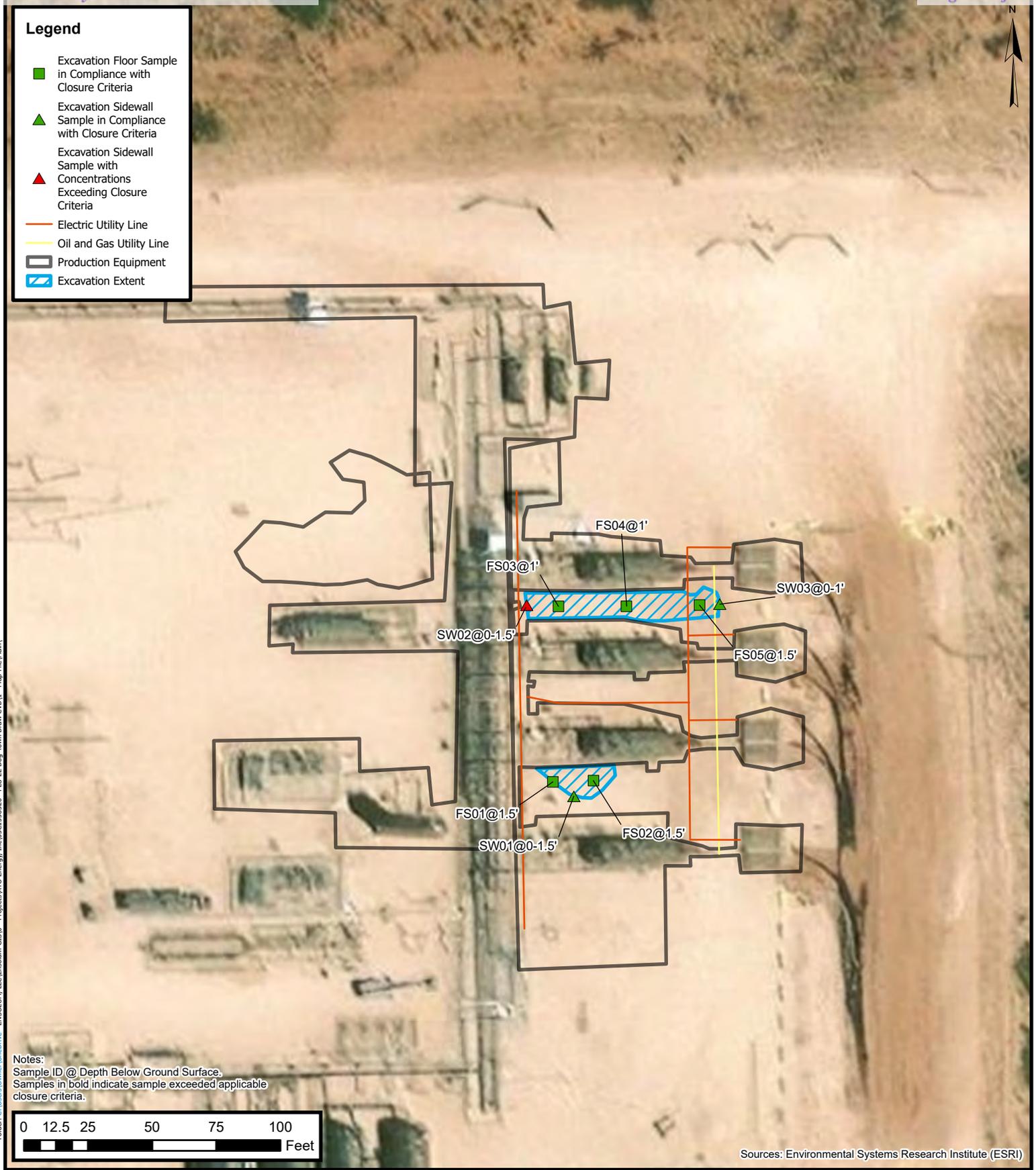
Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

XTO Energy, Inc
 PLU 22 Dog Town Draw CVB
 Incident Number: nAPP2402449008
 Unit N, Sec 15, T 24S, R 30E
 Eddy County, New Mexico

FIGURE
2





Folder: C:\Users\Owner1\Desktop - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558326 - PLU 22 Dog Town Draw CVB\1 - Map File\Main



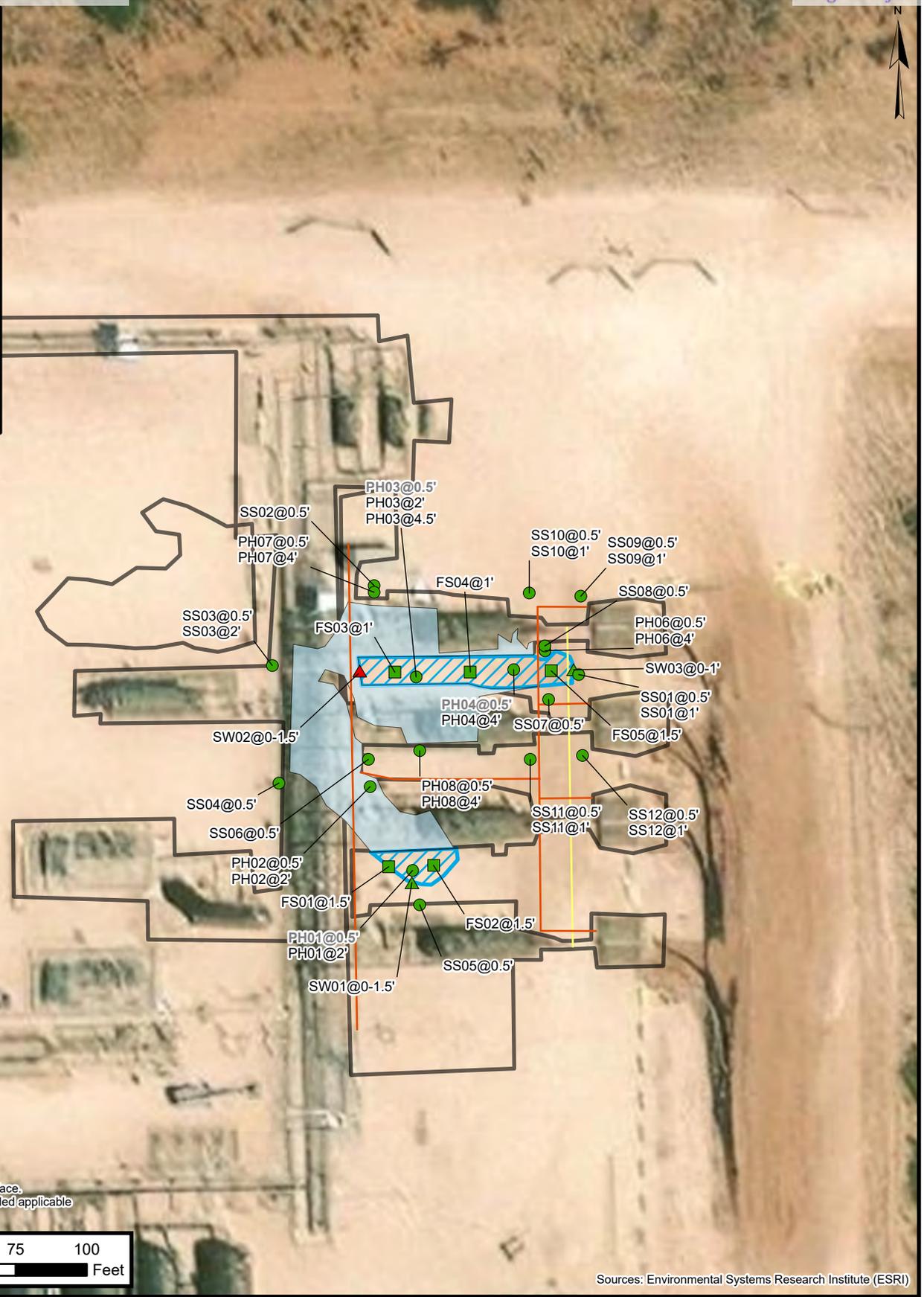
Excavation Soil Sample Locations

XTO Energy, Inc
 PLU 22 Dog Town Draw CVB
 Incident Number: nAPP2402449008
 Unit N, Sec 15, T 24S, R 30E
 Eddy County, New Mexico

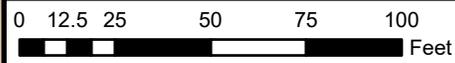
FIGURE
3

Legend

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



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

ENSOLUM
 Environmental, Engineering and Hydrogeologic Consultants

Proposed Deferral Area

XTO Energy, Inc
 PLU 22 Dog Town Draw CVB
 Incident Number: nAPP2402449008
 Unit N, Sec 15, T 24S, R 30E
 Eddy County, New Mexico

FIGURE

4



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 22 Dog Town Draw CVB
XTO Energy, Inc
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS01	06/14/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	42.2	11.5	42.2	53.7	64.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	05/15/2024	2	<0.050	<0.300	<10.0	21.1	<10.0	21.1	21.1	272.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	43.9	11.1	43.9	55.0	64.0
SS05	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	03/05/2024	0.5	<0.050	<0.300	<10.0	10.5	<10.0	10.5	<10.0	496
SS07	05/15/2024	0.5	<0.050	<0.300	<10.0	182.0	125.0	182.0	307.0	464
SS08	05/15/2024	0.5	<0.050	<0.300	<10.0	105.0	65.7	105.0	170.7	208
SS09	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS09	06/14/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS10	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SS10	06/14/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SS11	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS11	06/14/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS12	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS12	06/14/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
PH01	04/03/2024	0.5	<0.050	<0.300	47.9	4,340	475	4,360	4,530	384
PH01	04/03/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH02	04/03/2024	0.5	<0.050	<0.300	<10.0	50.9	14.3	50.9	65.2	48.0
PH02	04/03/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH03	04/03/2024	0.5	<0.050	19.0	543	3,050	349	3,590	3,940	208
PH03	04/03/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH03	04/03/2024	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH04	04/03/2024	0.5	<0.200	79.0	4,120	5,920	637	6,140	6,780	256
PH04	04/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH06	04/04/2024	0.5	<0.050	<0.300	<10.0	82.4	26.2	82.4	109	528
PH06	04/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH07	04/04/2024	0.5	<0.050	<0.300	<10.0	161	48.7	161	210	1,090
PH07	04/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH08	04/04/2024	0.5	<0.200	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH08	04/04/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Confirmation Soil Samples										
FS01	04/04/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS02	04/04/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS03	04/04/2024	1	<0.050	6.90	80.7	591	81.4	672	753	64.0
FS04	04/04/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS05	04/04/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW01	04/04/2024	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW02	04/04/2024	0-1.5	<0.050	23	627	4,960	958	5,590	6,550	128
SW03	05/15/2024	0-1	<0.050	<0.300	<10.0	205	56.5	205	261.5	192

Notes:

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NMOCD: New Mexico Oil Conservation Division
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- ORO: Oil Range Organics
- TPH: Total Petroleum Hydrocarbon
- NMAC: New Mexico Administrative Code
- Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) PLU Lease CP Bed			OSE FILE NUMBER(S) C-3893		
	WELL OWNER NAME(S) BOPCO, L.P.			PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 201 MAIN STREET			CITY FORT WORTH	STATE TX	ZIP 76102
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LATITUDE	32	12	32.88	
	LONGITUDE	103	53	2.88	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE 1/4 OF NW 1/4 OF NW 1/4 OF NE 1/4 OF SECTION 21, TOWNSHIP 24S, RANGE 30E						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1261	NAME OF LICENSED DRILLER R. DARRELL CRASS			NAME OF WELL DRILLING COMPANY DARRELL CRASS DRILLING COMPANY			
	DRILLING STARTED 8/19/15	DRILLING ENDED 8/26/15	DEPTH OF COMPLETED WELL (FT) 600	BORE HOLE DEPTH (FT) 600	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY: SUPER GEL X							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	40	8"	SCH 40 PVC BLANK	GLUE, SCREWS	8"		

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	10	425	8"	BENTONITE HOLE PLUG	145 CUBIC FEET	POUR
	0	10	8"	PORTLAND CEMENT	7 CUBIC FEET	POUR

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/08/2012)		
FILE NUMBER	C-3893	POD NUMBER	1	TRN NUMBER	571438
LOCATION	G-1-1 24S. 30E. 21			PAGE 1 OF 2	



APPENDIX B

Photographic Log



APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: PH01		Date: 4/3/2024	
					Site Name: PLU 22 Dog Town Draw CVB			
					Incident Number: nAPP2402449008			
					Job Number: 03C1558326			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: TH		Method: Hand Auger	
Coordinates: 32.212206, -103.870780					Hole Diameter: 4"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	358.4	48.6	N	PH01	0.5	0	CCHE	(0-2') CALICHE, well graded, white, no odor
Dry	196	21.7	N		1	1		
Dry	<196	2.8	N	PH01	2	2	SP	(@2') SAND, brown, poor graded, no odor
						Total Depth @ 2 feet bgs		

					Sample Name: PH02		Date: 4/3/2024	
					Site Name: PLU 22 Dog Town Draw CVB			
					Incident Number: nAPP2402449008			
					Job Number: 03C1558326			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: TH		Method: Hand Auger	
Coordinates: 32.21287, -103.870827					Hole Diameter: 4"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	459.2	4.1	N	PH02	0.5	0	CCHE	(0-2') CALICHE, well graded, white, no odor
Dry	<196	4.0	N		1	1		
Dry	<196	1.0	N	PH02	2	2	SP	(@2') SAND, brown, poor graded, no odor
						Total Depth @ 2 feet bgs		

		Sample Name: PH03		Date: 4/3/2024				
		Site Name: PLU 22 Dog Town Draw CVB						
		Incident Number: nAPP2402449008						
		Job Number: 03C1558326						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.212393, -103.870774			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 4.5'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	235.2	517.5	N	PH03	0.5	0	CCHE	(0-2') CALICHE, well graded, white, slight odor
Dry	<196	296.9	N		1	1		(@1') some brown sand added, no odor
Dry	<196	19.6	N	PH03	2	2	SP	(2-4.5') SAND, brown, some silt, trace clay
Dry	<196	15.4	N		3	3		
Dry	<196	35.2	N		4	4		
Dry	<196	30.4	N	PH03	4.5	4.5		
						Total Depth @ 4.5 feet		

		Sample Name: PH04		Date: 4/3/2024				
		Site Name: PLU 22 Dog Town Draw CVB						
		Incident Number: nAPP2402449008						
		Job Number: 03C1558326						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.212399, -103.870662			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	274.5	433.0	N	PH04	0.5	0	CCHE	(0-1') CALICHE, well graded, white, slight odor
Dry	<196	106.3	N		1	1	SP	(1-2') SAND, brown, some clay, some caliche
Dry	<196	70.0	N		2	2		(2-4') SAND, brown, some silt, trace clay, no odor
Dry	<196	24.0	N		3	3		
Dry	<196	12.3	N	PH04	4	4		
						Total Depth @ 4 feet bgs		

		Sample Name: PH06		Date: 4/4/2024				
		Site Name: PLU 22 Dog Town Draw CVB						
		Incident Number: nAPP2402449008						
		Job Number: 03C1558326						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.212419, -103.870628			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1562	1.7	N	PH06	0.5	0	CCHE	(0-1') CALICHE, well graded, white, no odor
Dry	408.8	1.0	N		1	1	SP	(1-4') SAND, brown, some clay, some caliche
Dry	<196	1.3	N		2	2		(2-4') SAND, brown, some clay, no odor
Dry	<196	2.8	N		3	3		
Dry	<196	1.5	N	PH06	4	4		
						Total Depth @ 4 feet bgs		

					Sample Name: PH07		Date: 4/4/2024	
					Site Name: PLU 22 Dog Town Draw CVB			
					Incident Number: nAPP2402449008			
					Job Number: 03C1558326			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: TH		Method: Hand Auger	
Coordinates: 32.212475, -103.870820					Hole Diameter: 4"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	274.4	1.0	N	PH07	0.5	0	CCHE	(0-1') CALICHE, well graded, white, no odor
Dry	<196	1.6	N		1	1	SP	(1-2') SAND, brown, some clay, poorly graded
Dry	<196	1.8	N		2	2		(2-4') SAND, brown, some silt, trace clay, no odor
Dry	<196	1.9	N		3	3		
Dry	<196	2.2	N	PH07	4	4		
						Total Depth @ 4 feet bgs		

		Sample Name: PH08		Date: 4/4/2024				
		Site Name: PLU 22 Dog Town Draw CVB						
		Incident Number: nAPP2402449008						
		Job Number: 03C1558326						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.212321, -103.870770			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	196.0	0.0	N	PH08	0.5	0	CCHE	(0-1') CALICHE, well graded, white, no odor
Dry	<196	1.1	N		1	1	SP	(1-2') SAND, brown, some clay
Dry	<196	0.1	N		2	2		(2-4') SAND, brown, some silt, trace clay, no odor
Dry	<196	2.5	N		3	3		
Dry	<196	0.7	N	PH08	4	4		
						Total Depth @ 4 feet bgs		



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 12, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DOG TOWN DRAW CVB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 01 @ 0.5' (H241156-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	112	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 02 @ 0.5' (H241156-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	64.0	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	42.2	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	11.5	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 03 @ 0.5' (H241156-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 04 @ 0.5' (H241156-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	43.9	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	11.1	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 05 @ 0.5' (H241156-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2024	Sampling Date:	03/05/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - 32.21237-103.87057		

Sample ID: SS 06 @ 0.5' (H241156-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/11/2024	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	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	10.5	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: ENSOLUUM, LLC
 Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575-037-3900 Fax #: _____
 Project #: 03C1558320 Project Owner: _____
 Project Name: PLY 22 Dog Town Draw CVB
 Project Location: 32.21237, -103.87057
 Sampler Name: Marianna O'Dell
 P.O. #: _____
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E. Greent
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
<u>HA1154</u>	<u>SS01 @ 0.5'</u>	<u>G</u>	<u>1</u>	<u>X</u>		<u>X</u>			<u>X</u>		<u>3/5/24</u>	<u>15:00</u>	<u>X</u>	<u>X</u>	<u>X</u>					
	<u>SS02 @ 0.5'</u>			<u>X</u>		<u>X</u>						<u>15:05</u>	<u>X</u>	<u>X</u>	<u>X</u>					
	<u>SS03 @ 0.5'</u>			<u>X</u>		<u>X</u>						<u>15:10</u>	<u>X</u>	<u>X</u>	<u>X</u>					
	<u>SS04 @ 0.5'</u>			<u>X</u>		<u>X</u>						<u>15:25</u>	<u>X</u>	<u>X</u>	<u>X</u>					
	<u>SS05 @ 0.5'</u>			<u>X</u>		<u>X</u>						<u>15:30</u>	<u>X</u>	<u>X</u>	<u>X</u>					
	<u>SS06 @ 0.5'</u>			<u>X</u>		<u>X</u>						<u>15:35</u>	<u>X</u>	<u>X</u>	<u>X</u>					

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Relinquished By: [Signature] Date: 3/10/24 Time: 11:37
 Received By: [Signature] Date: 3-9-24 Time: 1430
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: thillard@ensolum.com
 REMARKS: Incident #: NRP 2402449008

Delivered By: (Circle One) Observed Temp. °C 6.0 Sample Condition Intact Cool Yes No
 Corrected Temp. °C _____
 Turnaround Time: _____ Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No
 Thermometer ID: #44 Correction Factor: -0.5°C #140 Observed Temp. °C _____ Corrected Temp. °C _____

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



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

April 09, 2024

BEN BELILL
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PLU 22 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 04/04/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/04/2024	Sampling Date:	04/03/2024
Reported:	04/09/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Dionica Hinojos
Project Location:	XTO 32.21237,-103.87057		

Sample ID: PH 01 0.5' (H241752-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/09/2024	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*	47.9	10.0	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	1310	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	175	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 01 2' (H241752-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/09/2024	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	04/08/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/08/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/08/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 02 0.5' (H241752-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	50.9	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	14.3	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 02 2' (H241752-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 03 0.5' (H241752-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	0.604	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	0.794	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	17.6	0.150	04/05/2024	ND	6.60	110	6.00	5.70	GC-NC1
Total BTEX	19.0	0.300	04/05/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 154 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/09/2024	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*	543	10.0	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	3050	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	349	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 03 2' (H241752-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/09/2024	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	04/08/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/08/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/08/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 03 4.5' (H241752-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 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, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 04 0.5' (H241752-08)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/08/2024	ND	2.08	104	2.00	5.74	
Toluene*	2.80	0.200	04/08/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	3.38	0.200	04/08/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	72.9	0.600	04/08/2024	ND	6.60	110	6.00	5.70	GC-NC1
Total BTEX	79.0	1.20	04/08/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 143 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1120	10.0	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	5020	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	637	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/04/2024
 Reported: 04/09/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 04/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: PH 04 4' (H241752-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.08	104	2.00	5.74	
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98	
Total Xylenes*	0.208	0.150	04/05/2024	ND	6.60	110	6.00	5.70	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/08/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/08/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476
 Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Ben Bell
Address: 601 N. Marientfeld St STE 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 989 854 0832 **Fax #:**
Project #: 03C1558326 **Project Owner:** XTO
Project Name: PU 22 DTD CUB
Project Location: 32, 21237, -103, 87057
Sampler Name: Tracy Hillard
FOR LAB USE ONLY

BILL TO
P.O. #:
Company: XTO Energy
Attn: Amy Ruth
Address: 3104 E. Geneva
City: Midland
State: NM **Zip:** 88220
Phone #: 432-661-0571
Fax #:

ANALYSIS REQUEST

Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
PH01	0.5	G	1	X							4:32PM	0930	Chlorides
PH01	2	G	1								1310	0945	BTEX
PH02	0.5	G	1								1305	1005	TPH
PH03	0.5	G	1								1024	1255	
PH03	2	G	1								1200	1245	
PH04	0.5	G	1								1245		
PH04	0.5	G	1										

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Relinquished By: Ben Bell
Date: 4/4/24
Time: 13:20
Received By: [Signature]
Date: [Signature]
Time: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
Observed Temp. °C: 1.82
Corrected Temp. °C: #40
Sample Condition: Cool Intake Yes No
Checked By: [Signature] (Initials)
Turnaround Time: 24 Hrs
Standard: [Signature]
Thermometer ID: 444
Correction Factor: 444
Bacteria (only) Sample Condition: Cool Intake Yes No
Observed Temp. °C:
Corrected Temp. °C:

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



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

April 17, 2024

BEN BELILL
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PLU 22 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 04/05/24 9:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 06 0.5'	H241774-01	Soil	04-Apr-24 00:00	05-Apr-24 09:03
PH 06 4'	H241774-02	Soil	04-Apr-24 00:00	05-Apr-24 09:03
PH 07 0.5'	H241774-03	Soil	04-Apr-24 00:00	05-Apr-24 09:03
PH 07 4'	H241774-04	Soil	04-Apr-24 00:00	05-Apr-24 09:03
PH 08 0.5'	H241774-05	Soil	04-Apr-24 00:00	05-Apr-24 09:03
PH 08 4'	H241774-06	Soil	04-Apr-24 00:00	05-Apr-24 09:03
FS 01 1.5'	H241774-07	Soil	04-Apr-24 00:00	05-Apr-24 09:03
FS 02 1.5'	H241774-08	Soil	04-Apr-24 00:00	05-Apr-24 09:03
FS 03 1'	H241774-09	Soil	04-Apr-24 00:00	05-Apr-24 09:03
FS 04 1'	H241774-10	Soil	04-Apr-24 00:00	05-Apr-24 09:03
FS 05 1.5'	H241774-11	Soil	04-Apr-24 14:00	05-Apr-24 09:03
SW 01 0-1.5'	H241774-12	Soil	04-Apr-24 10:15	05-Apr-24 09:03
SW 02 0-1.5'	H241774-13	Soil	04-Apr-24 14:05	05-Apr-24 09:03

04/17/24 - The wrong project name was logged in originally. This is the revised report with the correct project name matching the COC and will replace the one sent on 04/11/24.

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 06 0.5'
H241774-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	528		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
DRO >C10-C28*	82.4		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	26.2		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			80.4 %		48.2-134	4040510	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			91.3 %		49.1-148	4040510	MS	08-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 06 4'
H241774-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			105 %	48.2-134		4040510	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	49.1-148		4040510	MS	08-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 07 0.5'
H241774-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1090		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
DRO >C10-C28*	161		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	48.7		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.9 %		48.2-134	4040510	MS	08-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	4040510	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 07 4'
H241774-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			77.1 %		48.2-134	4040510	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			91.1 %		49.1-148	4040510	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 08 0.5'
H241774-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040510	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.7 %		48.2-134	4040510	MS	08-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.0 %		49.1-148	4040510	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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PH 08 4'
H241774-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			80.5 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			58.6 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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FS 01 1.5'
H241774-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			85.6 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			63.4 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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FS 02 1.5'
H241774-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	4040825	HM	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			85.8 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			66.2 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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FS 03 1'
H241774-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4040925	CT	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	0.434		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	0.371		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	6.09		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	6.90		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			145 %	71.5-134		4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	80.7		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	591		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	81.4		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.5 %	48.2-134		4040520	MS	08-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			68.9 %	49.1-148		4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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FS 04 1'
H241774-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4040925	CT	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040809	JH	09-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040809	JH	09-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	4040809	JH	09-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.6 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.8 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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FS 05 1.5'
H241774-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	4040925	CT	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040811	JH	08-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			89.9 %		71.5-134	4040811	JH	08-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.5 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.3 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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**SW 01 0-1.5'
H241774-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	4040925	CT	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040811	JH	08-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			91.9 %		71.5-134	4040811	JH	08-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			89.7 %		48.2-134	4040520	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			72.2 %		49.1-148	4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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**SW 02 0-1.5'
H241774-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4040925	CT	09-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Toluene*	1.65		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Ethylbenzene*	0.989		0.050	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total Xylenes*	20.1		0.150	mg/kg	50	4040811	JH	08-Apr-24	8021B	
Total BTEX	22.8		0.300	mg/kg	50	4040811	JH	08-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			280 %	71.5-134		4040811	JH	08-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	627		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
DRO >C10-C28*	4960		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	958		10.0	mg/kg	1	4040520	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			160 %	48.2-134		4040520	MS	08-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			84.6 %	49.1-148		4040520	MS	08-Apr-24	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4040825 - 1:4 DI Water										
Blank (4040825-BLK1) Prepared & Analyzed: 08-Apr-24										
Chloride	ND	16.0	mg/kg							
LCS (4040825-BS1) Prepared & Analyzed: 08-Apr-24										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4040825-BSD1) Prepared & Analyzed: 08-Apr-24										
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 4040925 - 1:4 DI Water										
Blank (4040925-BLK1) Prepared & Analyzed: 09-Apr-24										
Chloride	ND	16.0	mg/kg							
LCS (4040925-BS1) Prepared & Analyzed: 09-Apr-24										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4040925-BSD1) Prepared & Analyzed: 09-Apr-24										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040809 - Volatiles

Blank (4040809-BLK1)

Prepared & Analyzed: 08-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0575		mg/kg	0.0500		115	71.5-134			

LCS (4040809-BS1)

Prepared & Analyzed: 08-Apr-24

Benzene	1.99	0.050	mg/kg	2.00		99.5	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128			
m,p-Xylene	4.43	0.100	mg/kg	4.00		111	89-129			
o-Xylene	2.19	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.62	0.150	mg/kg	6.00		110	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500		108	71.5-134			

LCS Dup (4040809-BSD1)

Prepared & Analyzed: 08-Apr-24

Benzene	1.96	0.050	mg/kg	2.00		98.2	82.8-130	1.34	15.8	
Toluene	2.18	0.050	mg/kg	2.00		109	86-128	3.51	15.9	
Ethylbenzene	2.33	0.050	mg/kg	2.00		117	85.9-128	5.72	16	
m,p-Xylene	4.70	0.100	mg/kg	4.00		118	89-129	5.98	16.2	
o-Xylene	2.32	0.050	mg/kg	2.00		116	86.1-125	5.57	16.7	
Total Xylenes	7.02	0.150	mg/kg	6.00		117	88.2-128	5.85	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0572		mg/kg	0.0500		114	71.5-134			

Batch 4040811 - Volatiles

Blank (4040811-BLK1)

Prepared & Analyzed: 08-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: PLU 22 DTD CVB
Project Number: 03C1558326
Project Manager: BEN BELILL
Fax To:

Reported:
17-Apr-24 16:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040811 - Volatiles**Blank (4040811-BLK1)**

Prepared & Analyzed: 08-Apr-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		91.6	71.5-134			

LCS (4040811-BS1)

Prepared & Analyzed: 08-Apr-24

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.8	85.9-128			
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.0	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		96.1	86.1-125			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0453		mg/kg	0.0500		90.7	71.5-134			

LCS Dup (4040811-BSD1)

Prepared & Analyzed: 08-Apr-24

Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	0.325	15.8	
Toluene	2.02	0.050	mg/kg	2.00		101	86-128	0.148	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.5	85.9-128	0.271	16	
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.8	89-129	0.189	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.6	86.1-125	0.542	16.7	
Total Xylenes	5.74	0.150	mg/kg	6.00		95.7	88.2-128	0.307	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0451		mg/kg	0.0500		90.3	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040510 - General Prep - Organics

Blank (4040510-BLK1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	49.1-148			

LCS (4040510-BS1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	185	10.0	mg/kg	200		92.5	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200		90.8	66.5-118			
Total TPH C6-C28	367	10.0	mg/kg	400		91.6	77.6-123			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	62.0		mg/kg	50.0		124	49.1-148			

LCS Dup (4040510-BSD1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	191	10.0	mg/kg	200		95.4	66.4-123	3.10	17.7	
DRO >C10-C28	184	10.0	mg/kg	200		91.8	66.5-118	1.13	21	
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	77.6-123	2.13	18.5	
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	49.1-148			

Batch 4040520 - General Prep - Organics

Blank (4040520-BLK1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.6	49.1-148			

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: PLU 22 DTD CVB Project Number: 03C1558326 Project Manager: BEN BELILL Fax To:	Reported: 17-Apr-24 16:50
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Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040520 - General Prep - Organics

LCS (4040520-BS1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	199	10.0	mg/kg	200		99.3	66.4-123			
DRO >C10-C28	191	10.0	mg/kg	200		95.4	66.5-118			
Total TPH C6-C28	389	10.0	mg/kg	400		97.4	77.6-123			
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	48.2-134			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	49.1-148			
LCS Dup (4040520-BSD1)		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123	1.58	17.7	
DRO >C10-C28	194	10.0	mg/kg	200		96.8	66.5-118	1.45	21	
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	77.6-123	1.52	18.5	
Surrogate: 1-Chlorooctane	62.3		mg/kg	50.0		125	48.2-134			
Surrogate: 1-Chlorooctadecane	50.7		mg/kg	50.0		101	49.1-148			

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Notes and Definitions

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

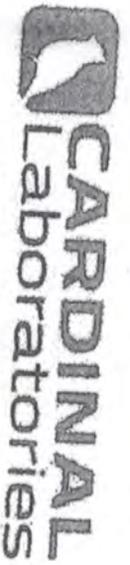
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476
 Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Ben Bell
Address: 101 N Marienfeld St STE 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 989-854-0830 **Fax #:**
Project #: 031558386 **Project Owner:** XTO
Project Name: PU 02 DTD URB
Project Location: 38.21237, -103.87057
Sampler Name: Tracy Hilliard
FOR LAB USE ONLY

BILL TO **ANALYSIS REQUEST**

P.O. #:
Company: XTO Energy
Attn: Amy Ruth
Address: 3104 E. Greene
City: Carlsbad
State: NM **Zip:** 88220
Phone #: 432-661-0571
Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	BTEX	TPH
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1	PH06	0.5	G	1			X					4/4/24				
2	PH06	4	G	1												
3	PH07	0.5	G	1												
4	PH07	4	G	1												
5	PH08	0.5	G	1												
6	PH08	4	G	1												
7	F501	1.5	C	1												
8	F502	1.5	C	1												
9	F503	1	C	1												
10	F504	1	C	1												

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Relinquished By: Ben Bell
Date: 4/5-24
Time: 9:03
Received By: [Signature]
Date:
Time:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: Observed Temp. °C: 26
 Corrected Temp. °C:

Checked By: [Signature]
Thermometer ID #: 439
Turnaround Time: 281 0431001
Standard Request:
Bacteria (only) Sample Condition:
Corrected Temp. °C:
Observed Temp. °C:

* Cardinal cannot accept verbal changes. Please email changes to coby.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 601 N Marientfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 989-854-0832 Fax #:

Project #: 03C155832E Project Owner: XTO

Project Name: RU 22 DTO CVB

Project Location: 32,212371-103,87057

Sampler Name: Tracy Hillard

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E Greene

City: Carlsbad

State: NM Zip: 88220

Phone #: 432-661-0571

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H241774	ESD5	1.5	C 1	1								4.4.24	1400	X	X	X
	SWD1	0-1.5	C 1	1									1015	X	X	X
	SWD2	0-1.5	C 1	1									1405	X	X	X

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Relinquished By: *[Signature]*

Date: 4-5-24

Time: 0903

Received By: *[Signature]*

Date: 4-5-24

Time: 1405

Delivered By: (Circle One) UPS Bus Other:

Observed Temp. °C: 36

Corrected Temp. °C:

Sample Condition: Intact Fractured

CHECKED BY: *[Signature]*

Turnaround Time: 2210431001

Thermometer ID #113 #140

Correction Factor: 0.05

Bacteria (only) Sample Condition: Intact Fractured

Observed Temp. °C: 36

Corrected Temp. °C:



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

May 22, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DOG TOWN DRAW CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/15/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.21237-103.87057		

Sample ID: SS07 0.5 (H242716-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44		
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80		
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54		
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64		
Total BTEX	<0.300	0.300	05/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/20/2024	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	05/17/2024	ND	182	91.0	200	4.89		
DRO >C10-C28*	182	10.0	05/17/2024	ND	167	83.4	200	3.60		
EXT DRO >C28-C36	125	10.0	05/17/2024	ND						

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/15/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.21237-103.87057		

Sample ID: SS08 0.5 (H242716-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/20/2024	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	105	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	65.7	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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:	05/16/2024	Sampling Date:	05/15/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.21237-103.87057		

Sample ID: SW03 0 - 1 (H242716-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/20/2024	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	205	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	56.5	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/15/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	PLU 22 DOG TOWN DRAW CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.21237-103.87057		

Sample ID: SS03 2 (H242716-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/20/2024	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	21.1	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 0321558326 Project Owner: XTO
 Project Name: PU 22 DogTown Drags CIB
 Project Location: 32, 21037, -103, 87057
 Sampler Name: Tracy Hillard
 P.O. #: Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 Greene
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: 432-661-0571
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
1	5507	0.5	G	1			X						5/5/24	0922	X	X	X	
2	5508	0.5	G	1			X						0900					
3	5503	0-1	G	1			X						0910					
4	5503	2	G	1			X						1040					

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Relinquished By: [Signature] Date: 5/16/24 Time: 0700
 Received By: [Signature] Date: 5/16/24 Time: 1445
 Delivered By: (Circle One) Observed Temp. °C: 0.0 Corrected Temp. °C: [Blank]
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature] (Initials) [Signature]
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No No No
 Corrected Temp. °C: [Blank]



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

June 20, 2024

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

RE: PLU 22 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 01 1 (H243483-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.09	105	2.00	0.528	
Toluene*	<0.050	0.050	06/19/2024	ND	2.08	104	2.00	0.996	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.95	97.5	2.00	0.906	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.07	101	6.00	1.15	
Total BTEX	<0.300	0.300	06/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 09 0.5 (H243483-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177	
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25	
Total BTEX	<0.300	0.300	06/19/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 09 1 (H243483-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 10 0.5 (H243483-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/14/2024
 Reported: 06/20/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 10 1 (H243483-05)

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	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 11 0.5 (H243483-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/14/2024
 Reported: 06/20/2024
 Project Name: PLU 22 DTD CVB
 Project Number: 03C1558326
 Project Location: XTO 32.21237,-103.87057

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 11 1 (H243483-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 12 0.5 (H243483-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/14/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	PLU 22 DTD CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558326	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.21237,-103.87057		

Sample ID: SS 12 1 (H243483-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.3	2.00	0.177		
Toluene*	<0.050	0.050	06/19/2024	ND	2.04	102	2.00	4.20		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.07	103	2.00	5.25		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.15	103	6.00	5.25		
Total BTEX	<0.300	0.300	06/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/18/2024	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	06/18/2024	ND	192	96.1	200	0.224		
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	182	91.2	200	2.89		
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:
Project Manager: Tracy Hillard		Company: X70 Energy
Address: 601 N Marlenfeld Street, Suite 400		Attn: Amy Ruth
City: Midland	State: TX Zip: 79701	Address: 3104 Greene
Phone #: 575 937-3900	Fax #:	City: Carlsbad
Project #: 0306558326	Project Owner: X70	State: NM Zip: 88220
Project Name: PUW 72 DTD CUB	Project Location: 38.21237, -103.87057	Phone #: 982-441-0571
Sampler Name: Tracy Hillard	Fax #:	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H243483	S501	1	G	1		X						6/14/24	0959	X	X	X
	S509	0.5											0920			
	S508	1											0935			
	S510	0.5											0942			
	S510	1											0950			
	S511	0.5											1000			
	S512	1											1007			
	S512	0.5											1010			
	S512	1											1020			

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Reinquinshed By: <i>[Signature]</i>	Date: 6-14-24	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:
Reinquinshed By: <i>[Signature]</i>	Date: 6-14-24	Received By: <i>[Signature]</i>	All Results are emailed. Please provide Email address:
Reinquinshed By: <i>[Signature]</i>	Date: 6-14-24	Received By: <i>[Signature]</i>	Bell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	5.5	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>
	Corrected Temp. °C	No <input type="checkbox"/> Yes <input type="checkbox"/>	

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



APPENDIX B

Well Record and Log



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

February 10, 2025

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4911 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4911 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

STATE OF NEW MEXICO
20 FEB 12 2025



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4911			
	WELL OWNER NAME(S) XTO Energy, Inc.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3104 E. Greene St.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 32.23	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	51	54.46	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 22, T 24S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 01/16/2025	DRILLING ENDED 01/16/2025	DEPTH OF COMPLETED WELL (FT) Temporary Well Material	BORE HOLE DEPTH (FT) ±105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 1/16/25, 1/24/25		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	104	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4911 POD-1

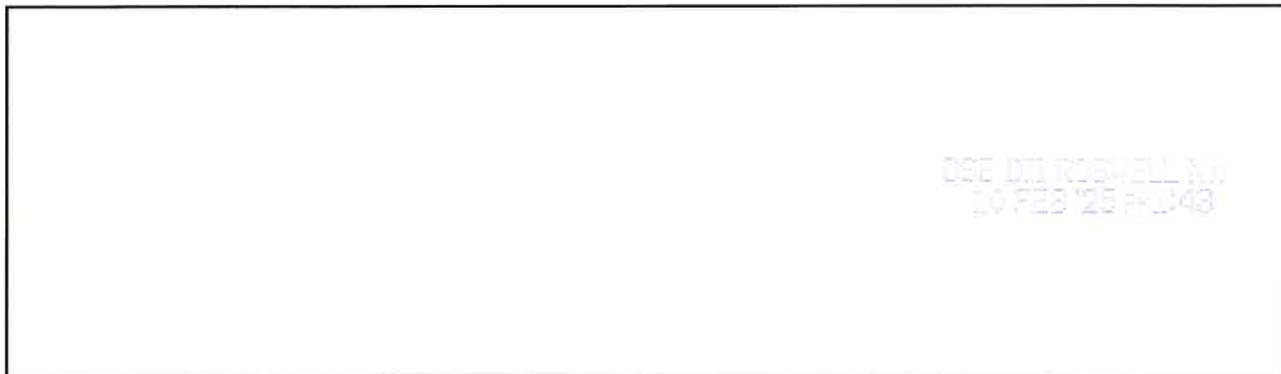
Well owner: XTO Energy, Inc. Phone No.: _____

Mailing address: 3104 E. Greene St.

City: Carlsbad State: New Mexico Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Lucas Middleton
- 4) Date well plugging began: 01/24/2024 Date well plugging concluded: 01/24/2024
- 5) GPS Well Location: Latitude: 32 deg, 12 min, 32.23 sec
Longitude: 103 deg, 51 min, 54.46 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 104 ft below ground level (bgl),
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 11/5/2025
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



OSE DRI RUSSELL M
20 FEB '25 PM 1:43

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Boring	
10'-104'	Drill Cuttings	Approx. 150 gallons	150 gallons	Boring	

OGE OF RUSSELL W.P.
20 FEB 25 11:48

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.


Jackie D. Atkins (Feb 10, 2025 10:06 MST)

Signature of Well Driller

02/10/2025

Date

C-4911-WR-20 Well Record and Log-packet-for sign-PLU 22 DTD CVB

Final Audit Report

2025-02-10

Created:	2025-02-10
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAYV7CZPFqKvAvffT7-gD4dnbIVV-wqNZb

"C-4911-WR-20 Well Record and Log-packet-forsign-PLU 22 DT D CVB" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2025-02-10 - 4:55:10 PM GMT
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2025-02-10 - 4:57:47 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2025-02-10 - 5:01:16 PM GMT
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2025-02-10 - 5:06:00 PM GMT - Time Source: server
-  Agreement completed.
2025-02-10 - 5:06:00 PM GMT

USE DIX RECORDS UNIT
10 FEB '25 2:14P



APPENDIX C

Photographic Log



Photographic Log
XTO Energy, Inc
PLU 22 Dog Town Draw CVB
nAPP2402449008



Photograph: 1 Date: 8/27/2024
Description: Site conditions after backfill activities.
View: East



Photograph: 2 Date: 8/27/2024
Description: Site conditions after backfill activities.
View: West



Photograph: 3 Date: 8/27/2024
Description: Site conditions after backfill activities.
View: Northeast



Photograph: 4 Date: 8/27/2024
Description: Site conditions after backfill activities.
View: West



Photographic Log
XTO Energy, Inc
PLU 22 Dog Town Draw CVB
nAPP2402449008

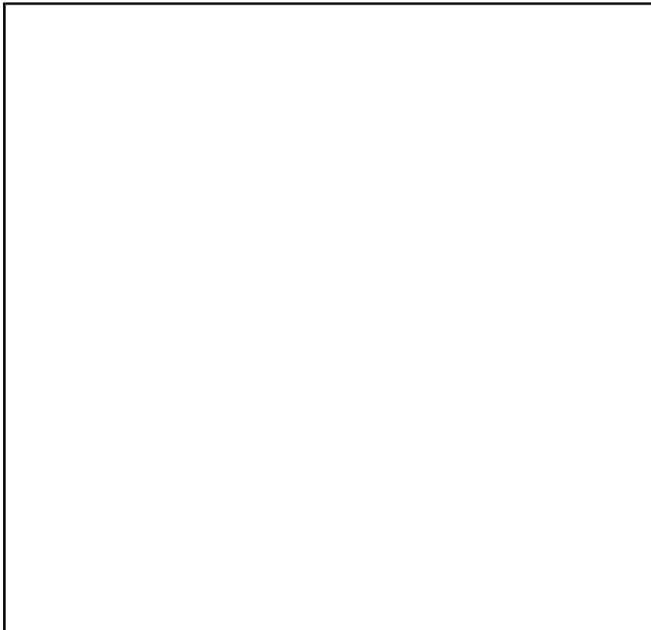


Photograph: 5 Date: 1/16/2025
Description: Groundwater Verification Boring drilling activities (C-4911).
View: Northeast

Photograph: 6 Date: 1/16/2025
Description: Groundwater Verification Boring drilling activities (C-4911).
View: Southwest



Photograph: 7 Date: 1/16/2025
Description: Groundwater Verification Boring drilling activities (C-4911).
View: Northwest



Blank area for additional photographs.

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 473420

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402449008
Incident Name	NAPP2402449008 PLU 22 DOG TOWN DRAW CVB @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 22 Dog Town Draw CVB
Date Release Discovered	01/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Freeze Separator Crude Oil Released: 10 BBL Recovered: 6 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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 2

Action 473420

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 06/11/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 473420

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	1090
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6780
GRO+DRO (EPA SW-846 Method 8015M)	6140
BTEX (EPA SW-846 Method 8021B or 8260B)	79
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	04/03/2024
On what date will (or did) the final sampling or liner inspection occur	06/14/2024
On what date will (or was) the remediation complete(d)	06/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	40

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 473420

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 06/11/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 473420

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	immediately adjacent and under active production equipment
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	240
<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 22 DTD CVB [fAPP2329131432]
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: 06/11/2025

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QUESTIONS, Page 6

Action 473420

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352787
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/14/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

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 473420

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 473420
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number: NAPP2402449008) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferral will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is limited to the area beneath active production equipment and surface piping where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	7/21/2025