



August 12, 2025

**New Mexico Oil Conservation Division**

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

**Re:   Deferral Request  
      Corral Canyon 21 CVB  
      Incident Numbers nAPP2417336593 & nAPP2424045887  
      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 delineation, excavation, and soil sampling activities at the Corral Canyon 21 CVB (Site). The purpose of the delineation, excavation, and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacted soil following two releases at the Site. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing delineation and excavation activities that have occurred and requesting deferral of final remediation for Incident Numbers nAPP2417336593 and nAPP2424045887 until the Site is reconstructed, and/or the well pad is abandoned.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit P, Section 16, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1253492°, -103.9815355°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) associated with Lease ID V049020001.

On June 12, 2024, failure of a treating tower resulted in the release of approximately 29 barrels (bbls) of produced water onto the pad surface between active production equipment and surface piping (Figure 1a). A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 15 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on June 21, 2024, and submitted an Initial Release C-141 Application (C-141) on August 12, 2024. The release was assigned Incident Number nAPP2417336593. XTO excavated impacted soil associated to the maximum extent practicable (MEP) in July 2024 (Figure 2a; Table 1); however, before final samples were collected, a second release overlapped the northern extent of the release area.

On August 26, 2024, a lease automatic custody transfer (LACT) unit suction valve malfunction resulted in the release of approximately 83 bbls of crude oil into a lined containment and onto the pad surface between active production equipment and lines (Figure 1b). A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 80 bbls of released crude oil was recovered. XTO reported the release to the NMOCD via NOR and a C-141 on August 27, 2024. The release was assigned Incident Number nAPP2424045887.

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Ensolum conducted Site assessment, delineation, and excavation activities for the releases and presented the results in a *Work Plan*. The *Work Plan* was submitted to the NMOCD on November 26, 2024, and approved on December 2, 2024. The *Work Plan* proposed excavation of impacted soil identified during delineation soil samples activities. An estimated 480 cubic yards of total petroleum hydrocarbon (TPH) impacted soil was to be excavated to the MEP and/or until confirmation floor and sidewalls soil samples confirmed soil impacts were removed. Following removal of soil, the excavation would be backfilled and recontoured to match pre-existing Site conditions. The *Work Plan* is presented in Appendix A.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- 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

## NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

### Cultural Properties Protection

Since the incident occurred on pad, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with this release.

### Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated potential habitats for Scheer's beehive cactus and Tharp's blue-star near the Site. While these threatened and endangered plant species are potentially present near the Site, no native vegetation outside of the well pad extent was disturbed during remediation activities since the releases both occurred on the well pad.
- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Simona sandy loam. Simona sandy loam is considered a sensitive soil by the SLO definition. The release occurred on pad surface limiting contact with potential sensitive soils and was found to have occurred on the pad caliche.

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## DELINEATION AND EXCAVATION ACTIVITIES

Between January 24 and March 12, 2025, Ensolum personnel returned to the Site to achieve full delineation for both releases (Figures 1a and 1b) and oversee additional excavation activities (Figure 2b). Delineation pothole PH01 was advanced to a depth of 7 feet bgs and pothole PH03 was advanced to a depth of 6 feet bgs. Discrete delineation soil samples were collected from each borehole at depths of 7 feet (PH01C) and 6 feet bgs (PH03B), respectively. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site activities and a photographic log is included in Appendix B. Updated lithologic/soil sampling logs for potholes PH01 and PH03 are provided in Appendix C. All delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 1a for Incident Number nAPP2417336593 and Figure 1b for Incident Number nAPP2424045887.

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

Excavation occurred utilizing heavy equipment in the areas proposed in the *Work Plan* and as indicated by visible staining and delineation soil sample analytical data. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chloride utilizing the above methods. Following removal of impacted soil, 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.

Confirmation soil samples FS01 through FS06 were collected from the floor of the excavation at depths ranging from 2 feet to 4 feet bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at a depth ranging from ground surface to 2 feet bgs and confirmation soil samples SW02 through SW05 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures described above and were submitted to Cardinal. The excavation extent and confirmation soil sample locations for NAPP2424045887 are depicted in Figure 2b. The associated soil sample analytical results are summarized in Table 2. Photographic documentation is included in Appendix B.

The excavation extent for Incident Number nAPP2424045887 measured approximately 1,130 square feet. Approximately 180 cubic yards of impacted soil was removed in this area during excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. Copies of the soil disposal manifests can be emailed upon request.

On July 16, 2025, Ensolum personnel returned to the Site to collect additional delineation soil samples to further define the release extent area. Delineation soil samples SS14 through SS28 were collected from around the release extent at a depth of 0.5 feet bgs. The delineation soil samples were collected and field screened as described above and submitted to Cardinal for analysis of the same COCs as described above.

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## LABORATORY ANALYTICAL RESULTS

Laboratory results for delineation soil samples PH01C and PH03B, and confirmation soil samples FS01 through FS04 (Table 2) indicated that all COC concentrations were in compliance with Site Closure Criteria, successfully defining the vertical extent of both releases. Laboratory analytical results for soil samples SS14 through SS28 collected at 0.5 feet bgs indicated that all COC concentrations were in compliance with the most stringent Closure Criteria, successfully defining the lateral extent of the releases.

Laboratory results for confirmation soil samples FS05, FS06, and SW01 through SW05 indicated TPH concentrations exceed the Closure Criteria. Analytical results for SW02 and SW04 also indicated BTEX concentrations exceeded Closure Criteria. Laboratory analytical results for soil samples collected for this report are presented on Table 2, which also summarizes previously collected soil sample results for Incident number NAPP2424045887. The complete laboratory analytical reports are included in Appendix D. Laboratory analytical results for the samples previously collected for nAPP2417336593 are presented on Table 1.

## DEFERRAL REQUEST

Due to active production equipment and process piping present in the area restricting access to impacted soil, XTO is requesting deferral of final remediation. The estimated area of remaining impacted soil for both releases is approximately 880 cubic yards in a combined 7,392 square-foot area, assuming a depth of 6 feet bgs on the northern half of the deferral area based on analytical results from PH03B, and a depth of 1-foot bgs on the southern half of the deferral area based on analytical results from BH01. The impacted soil is limited to the area beneath, and immediately adjacent to active production equipment and surface piping where remediation would require major facility deconstruction. The release extent has been vertically delineated for both releases by soil samples PH01C collected at 7 feet bgs and PH03B collected at 6 feet bgs. The release extent for Incident Number nAPP2424045887 has been laterally delineated by delineation soil samples SS02 through SS06 (Table 2), as well as delineation soil samples SS14 through SS28. The release extent for Incident Number nAPP2417336593 has been laterally delineated by delineation soil samples SS05 through SS13 from Table 1, SS14 through SS28, and confirmation soil sample SW03 (Table 1). The proposed deferral area for both releases and all delineation and confirmation soil samples used to define the deferral area are depicted on Figure 3.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, and the entirety of both releases remained on pad. 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 Numbers nAPP2417336593 and nAPP2424045887 until final reclamation of the well pad or major construction, whichever comes first.



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

Sincerely,  
**Ensolum, LLC**



Jeremy Reich  
Project Geologist



Benjamin J. Belill  
Senior Geologist

cc: Dale Woodall, XTO  
Kaylan Dirkx, XTO  
NMSLO

Appendices:

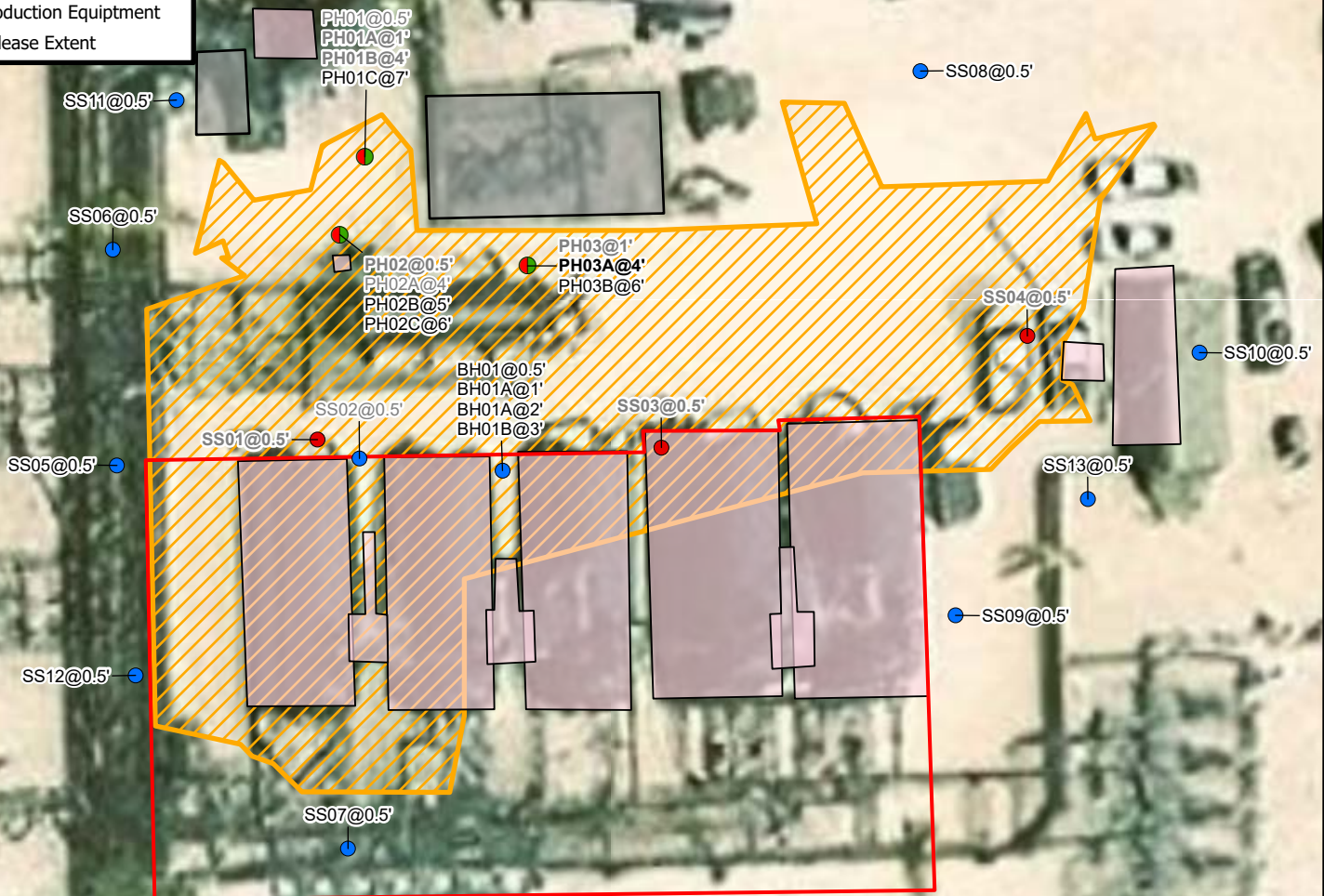
Figure 1a	Delineation Soil Sample Locations – Incident Number nAPP2417336593
Figure 1b	Delineation Soil Sample Locations – Incident Number nAPP2424045887
Figure 2a	Excavation Soil Sample Locations – Incident Number nAPP2417336593
Figure 2b	Excavation Soil Sample Locations – Incident Number nAPP2424045887
Figure 3	Requested Area of Deferral – Incident Numbers nAPP2417336593 & nAPP2424045887
Table 1	Soil Sample Analytical Results – Incident Number nAPP2417336593
Table 2	Soil Sample Analytical Results – Incident Number nAPP2424045887
Appendix A	November 25, 2024, <i>Remediation Work Plan</i>
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 (nAPP2417336593)
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria (nAPP2417336593)
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria (nAPP2417336593 & nAPP2424045887)
- Inaccessible with Heavy Equipment Area
- Lined Containment Area
- Production Equipment
- Release Extent



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

0 16.25 32.5 65  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations







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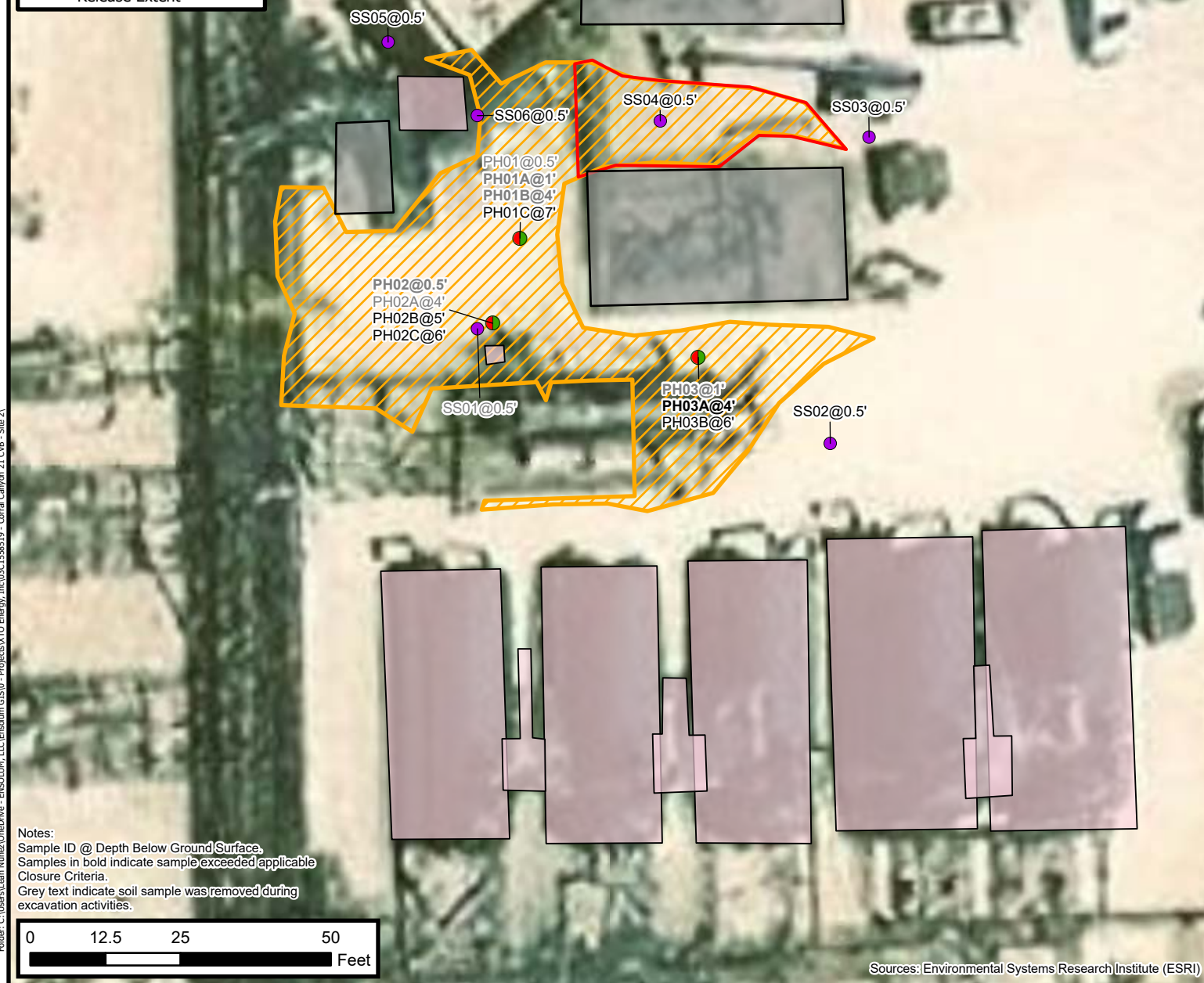
**FIGURE**  
**1a**





## Legend

-  Delineation Soil Sample in Compliance with Closure Criteria (nAPP2424045887)
-  Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria (nAPP2417336593 & nAPP2424045887)
-  Inaccessible with Heavy Equipment Area
-  Lined Containment Area
-  Production Equipment
-  Release Extent



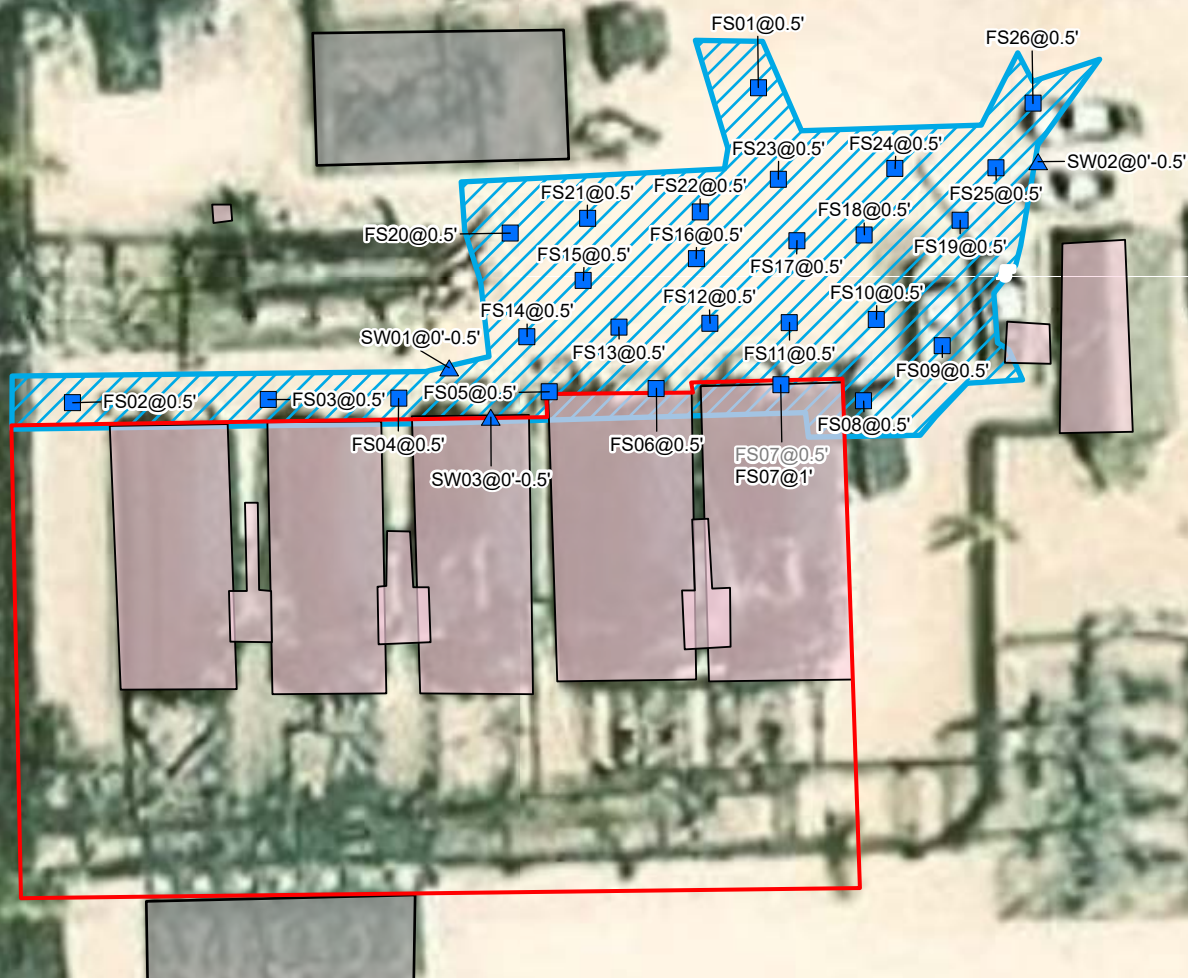
## Delineation Soil Sample Locations

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FIGURE  
 1b

**Legend**

- Excavation Floor Soil Sample in Compliance with Closure Criteria (nAPP2417336593)
- ▲ Excavation Sidewall Soil Sample in Compliance with Closure Criteria (nAPP2417336593)
- ▨ Excavation Extent
- ▭ Inaccessible with Heavy Equipment Area
- Lined Containment Area
- Production Equipment



Notes:  
 Sample ID @ Depth Below Ground/Surface.  
 Grey text indicate soil sample was removed during excavation activities.

0 16.25 32.5 65  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

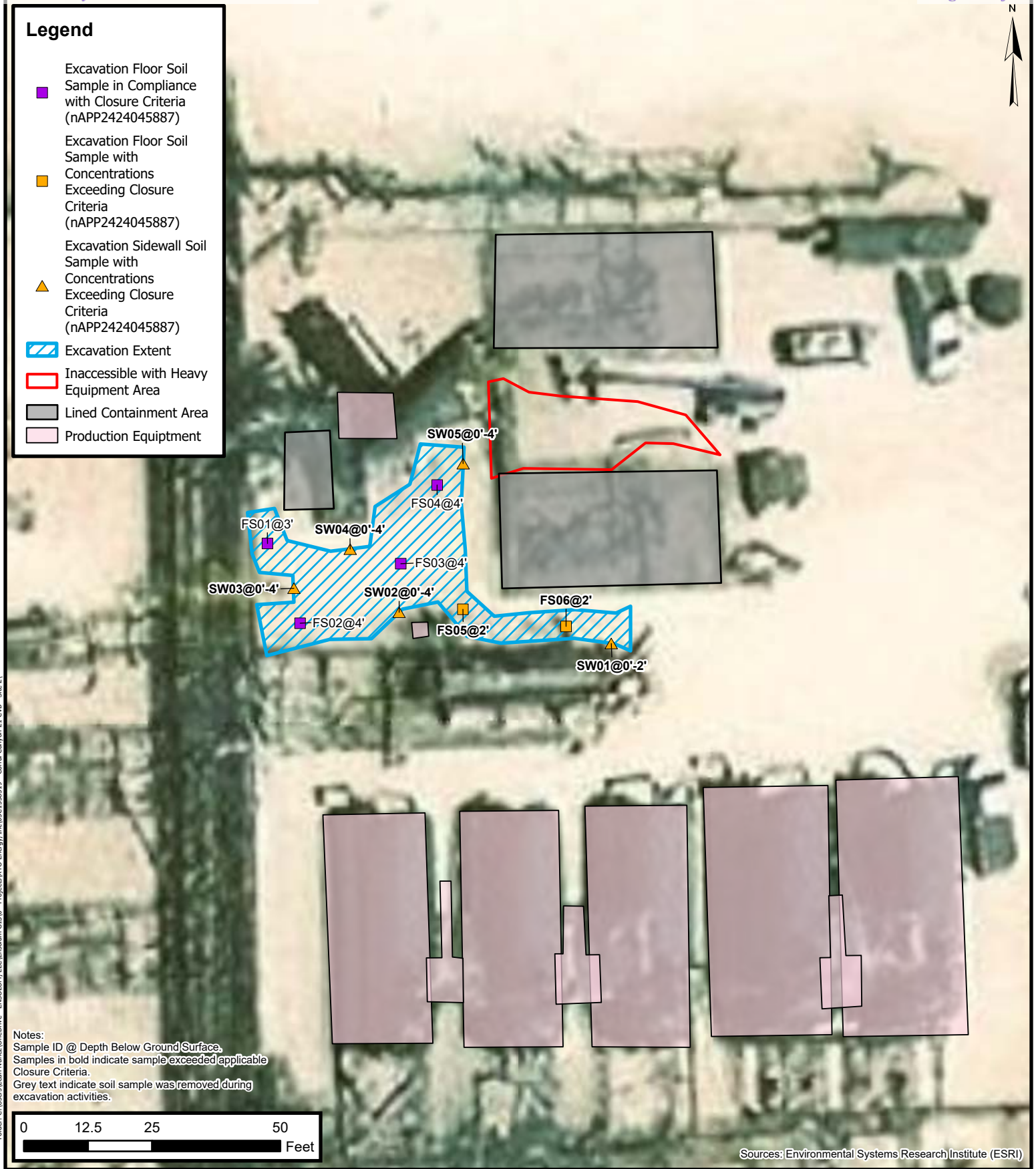
## Confirmation Soil Sample Location

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 Corral Canyon 21 CVB  
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 Unit P, Section 16, T 25S, R 29E  
 Eddy County, New Mexico

**FIGURE**  
**2a**







# Confirmation Soil Sample Location

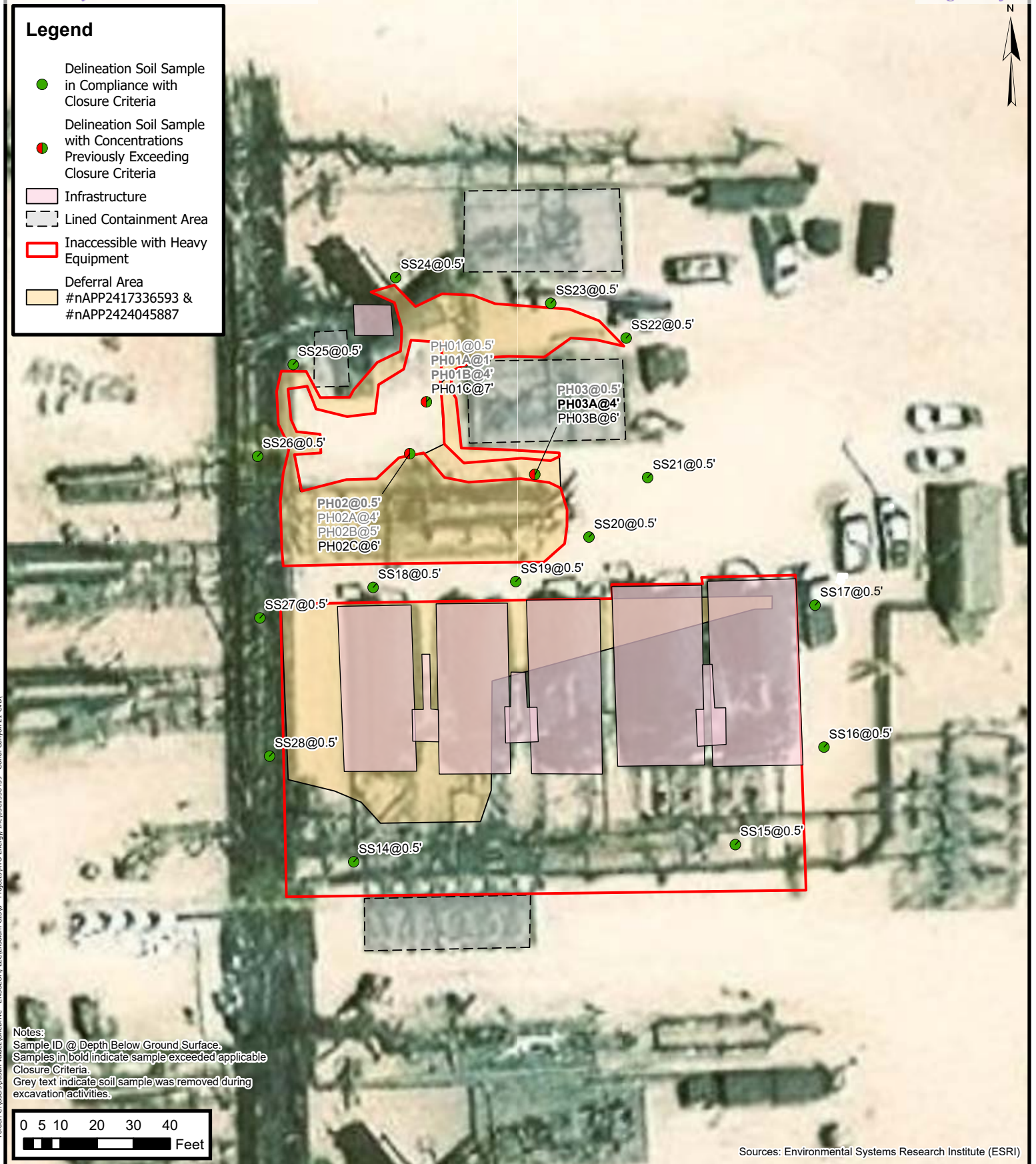
XTO Energy, Inc  
Corral Canyon 21 CVB  
Incident Number: nAPP2424045887  
Unit P, Section 16, T 25S, R 29E  
Eddy County, New Mexico

FIGURE  
2b



## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Infrastructure
- Lined Containment Area
- Inaccessible with Heavy Equipment
- Deferral Area
- #nAPP2417336593 & #nAPP2424045887



## Area of Requested Deferral

XTO Energy, Inc  
 Corral Canyon 21 CVB  
 Incident Number: nAPP2417336593  
 Incident Number: nAPP2424045887  
 Unit P, Section 16, T 25S, R 29E  
 Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593  
Corral Canyon 21 CVB  
XTO Energy, Inc  
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/17/2024	0.5	<0.050	<0.300	27.5	8,510	1,190	8,538	9,728	9,730
SS02	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,560
SS03	06/17/2024	0.5	<0.050	0.993	171	5,500	638	5,671	6,309	6,000
SS04	06/17/2024	0.5	<0.050	0.858	164	5,930	770	6,094	6,864	2,640
SS05	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS06	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS07	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS08	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS09	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS11	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS12	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS13	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS14	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS15	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS16	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS17	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS18	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS19	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS20	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS21	07/16/2025	0.5	<0.050	<0.300	<10.0	47.7	<10.0	47.7	47.7	48.0
SS22	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS23	07/16/2025	0.5	<0.050	<0.300	<10.0	17.7	<10.0	17.7	17.7	16.0
SS24	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS25	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS26	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS28	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593**  
**Corral Canyon 21 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
BH01	08/30/2024	0.5	<0.50	<0.300	<10.0	77.4	<10.0	77.4	77.4	416
BH01A	08/30/2024	1	<0.050	<0.300	<10.0	126	12.8	126	149	336
BH01A	10/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH01B	10/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH01	10/09/2024	0.5	<0.050	<0.300	<10.0	277	43.2	277	320	144
PH01A	10/09/2024	1	<0.050	18.7	388	2,650	351	3,038	3,389	560
PH01B	10/10/2024	4	<0.050	6.67	150	1,790	291	1,940	2,231	416
PH01C	01/24/2025	7	<0.050	1.93	75.7	840	115	916	1,031	272
PH02	10/10/2024	0.5	<0.100	49.7	1,060	5,130	752	6,190	6,942	160
PH02A	10/10/2024	4	<0.050	<0.300	<10.0	118	18.9	118	136.9	48.0
PH02B	10/10/2024	5	<0.050	<0.300	<10.0	63.8	<10.0	63.8	63.8	32.0
PH02C	10/10/2024	6	<0.050	0.565	16.1	327	43.7	343.1	386.8	16.0
PH03	10/09/2024	1	0.962	186	3,380	7,000	765	10,380	11,145	2,000
PH03A	10/10/2024	4	<0.050	10.6	331	1,890	262	2,221	2,483	400
PH03B	01/24/2025	6	<0.050	4.72	119	620	81.7	739	821	192
Confirmation Soil Samples										
FS01	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS02	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS03	07/03/2024	0.5	<0.050	<0.300	<10.0	19.1	<10.0	19.1	19.1	128
FS04	07/03/2024	0.5	<0.050	<0.300	<10.0	11.1	<10.0	11.1	11.1	128
FS05	07/03/2024	0.5	<0.050	<0.300	<10.0	19.9	<10.0	19.9	19.9	128
FS06	07/03/2024	0.5	<0.050	<0.300	<10.0	18.9	<10.0	18.9	18.9	128
FS07	07/03/2024	0.5	<0.050	<0.300	<10.0	107	22.4	107	129	144
FS07	07/26/2024	1	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	80.0
FS08	07/03/2024	0.5	<0.050	<0.300	<10.0	17.6	<10.0	17.6	17.6	112
FS09	07/03/2024	0.5	<0.050	<0.300	<10.0	24.5	<10.0	24.5	24.5	128
FS10	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS11	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS12	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS14	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS15	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593**  
**Corral Canyon 21 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
FS16	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS17	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS18	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS20	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS21	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS22	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS23	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS24	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS25	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW01	07/03/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW02	07/03/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW03	07/03/2024	0 - 0.5	<0.500	<0.300	<10.0	13.2	<10.0	13.2	13.2	128

## 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

TABLE 2  
SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2424045887  
Corral Canyon 21 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	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS02	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS03	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	10/10/2024	0.5	<0.050	<0.300	<10.0	198	72.2	198	270	48.0
SS05	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS15	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS16	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS17	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS18	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS19	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS20	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS21	07/16/2025	0.5	<0.050	<0.300	<10.0	47.7	<10.0	47.7	47.7	48.0
SS22	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS23	07/16/2025	0.5	<0.050	<0.300	<10.0	17.7	<10.0	17.7	17.7	16.0
SS24	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS25	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS26	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS28	07/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH01	10/09/2024	0.5	<0.050	<0.300	<10.0	277	43.2	277	320	144
PH01A	10/09/2024	1	<0.050	18.7	388	2,650	351	3,038	3,389	560
PH01B	10/10/2024	4	<0.050	6.67	150	1,790	291	1,940	2,231	416
PH01C	01/24/2025	7	<0.050	1.93	75.7	840	115	916	1,031	272
PH02	10/10/2024	0.5	<0.100	49.7	1,060	5,130	752	6,190	6,942	160
PH02A	10/10/2024	4	<0.050	<0.300	<10.0	118	18.9	118	136.9	48.0
PH02B	10/10/2024	5	<0.050	<0.300	<10.0	63.8	<10.0	63.8	63.8	32.0
PH02C	10/10/2024	6	<0.050	0.565	16.1	327	43.7	343.1	386.8	16.0

**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2424045887**  
**Corral Canyon 21 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
PH03	10/09/2024	4	0.962	186	3,380	7,000	765	10,380	11,145	2,000
PH03A	10/10/2024	4	<0.050	10.6	331	1,890	262	2,221	2,483	400
PH03B	01/24/2025	6	<0.050	4.72	119	620	81.7	739	821	192
Confirmation Soil Samples										
FS01	02/14/2025	3	<0.050	<0.300	<10.0	191	15.8	191	207	144
FS02	02/14/2025	4	<0.050	<0.300	<10.0	14.5	<10.0	14.5	14.5	96.0
FS03	02/14/2025	4	<0.050	0.733	32.3	641	76.6	673	750	352
FS04	02/14/2025	4	<0.050	<0.300	<10.0	131	<10.0	131	131	96.0
FS05	02/14/2025	2	<0.050	22.7	394	2,630	310	3,024	3,334	896
FS06	02/14/2025	2	<0.050	27.8	431	2,910	373	3,341	3,714	1,470
SW01	02/14/2025	0-2	<0.050	32.6	470	2,610	316	3,080	3,396	1,100
SW02	03/12/2025	0-4	<0.050	152	3,620	15,400	2,240	19,020	21,260	1,330
SW03	03/12/2025	0-4	<0.050	45.9	1,140	4,760	672	5,900	6,572	416
SW04	03/12/2025	0-4	<0.050	105	2,560	8,650	1,170	11,210	12,380	1,300
SW05	03/12/2025	0-4	<0.050	3.00	109	3,460	669	3,569	4,238	288

## 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

*Remediation Work Plan dated*

*November 25, 2024*

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November 25, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Corral Canyon 21 CVB  
Facility ID fAPP2409932758  
Incident Numbers nAPP2417336593 & nAPP2424045887  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment, delineation, excavation, and soil sampling activities completed to date and propose remedial actions to address the remaining impacted soil identified at the Corral Canyon 21 CVB (Site). The purpose of the remediation activities was to determine the presence or absence of impacted and/or waste-containing soil resulting from two releases at the Site. The following *Work Plan* proposes to remove impacted soil identified within the release extent to the maximum extent possible.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit P, Section 16, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1253492°, -103.9815355°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) associated with Lease ID V049020001.

On June 12, 2024, failure of a treating tower resulted in the release of approximately 29 barrels (bbls) of produced water onto the pad surface between active production equipment and surface piping. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 15 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on June 21, 2024, and submitted an Initial Release C-141 Application (C-141) on August 12, 2024. The release was assigned Incident Number nAPP2417336593.

On August 26, 2024, a LACT suction valve malfunction resulted in the release of approximately 83 bbls of crude oil into a lined containment and overflowed onto the pad surface between active production equipment and surface piping. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 80 bbls of released crude oil were recovered. XTO reported the release to the NMOCD via NOR and C-141 on August 27, 2024. The release was assigned Incident Number nAPP2424045887.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC).



XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 21 CVB

Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on recent gauging of livestock watering well. The closest permitted groundwater well with recent depth to groundwater data is a United States Geological Survey (USGS) well 320739103584201, located approximately 0.28 miles northeast of the Site. The most recent recorded depth to groundwater was reported as 140.9 feet bgs on January 29, 1998. Due to the age of the depth to groundwater data, Ensolum conducted a field investigation of the well. On October 9, 2024, the well was gauged with a oil/water interface probe to determine the current depth to groundwater. The USGS well had a depth to groundwater of 141.98 feet bgs and a total depth of 192 feet bgs. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1,085 feet northwest 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).

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

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

#### **INCIDENT NUMBER nAPP2417336593**

#### **SITE ASSESSMENT ACTIVITIES**

On June 17, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Ten delineation soil samples (SS01 through SS10) were collected around and within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 21 CVB

Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated that TPH and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for delineation soil samples SS05 through SS10 indicated all COCs were in compliance with Site Closure Criteria and strictest Table I Closure Criteria, successfully defining the lateral extent of the release. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C. Based on visible staining in the release area and laboratory analytical results for the delineation soil samples, delineation and excavation activities were warranted.

## EXCAVATION ACTIVITIES

Between July 1 through July 3, 2024, Ensolum personnel returned to the Site to oversee excavation activities. Impacted soil was excavated from the release area to the maximum extent possible as indicated by visible staining and laboratory analytical results. Excavation activities were performed using a backhoe and skid steer. To direct excavation activities, soil was field screened for VOCs and chlorides. The excavation was completed to a depth of 0.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, twenty seven 5-point composite soil samples were collected at least every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples, FS01 through FS26, were collected from the floor of the excavation at a depth of 0.5 feet bgs. In addition four composite soil samples, SW01 through SW03, were collected at depths ranging from surface to 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped with a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS26 indicated concentrations of all COCs were in compliance with the Closure Criteria. Excavation floor sample FS07 indicated TPH concentrations exceeded strictest Table I Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C.

The final excavation extent measured approximately 5,020 square feet. A total of approximately 100 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

On July 26, 2024, Ensolum personnel returned to the Site to oversee additional excavation activities. The soil in the vicinity of FS07 was excavated to a depth of 1-foot bgs. The soil samples were field screened for VOCs and chlorides. The sample was collected, handled, and analyzed following the same procedures as described above. The excavation extent was then backfilled with locally procured material and recontoured to match pre-existing conditions. The northern portion of the release, near SS01, was not excavated with mechanical equipment due to access issues encountered at the time. Additional delineation was required in this area in order to define the vertical extent of impacted soil remaining in place.

Prior to final delineation of the release, on August 26, 2024, a second release, Incident Number nAPP2424045887, occurred at the Site. The release of crude oil overlapped the northern extent of the release in the vicinity of delineation soil sample SS01.

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 21 CVB

## **INCIDENT NUMBER nAPP2424045887**

### **SITE ASSESSMENT AND DELINEATION ACTIVITIES**

On August 30, 2024 Ensolum personnel returned to the Site to finalize delineation of the original release. Three delineation soil samples, SS11 through SS13 were collected at 0.5 feet bgs around the release extents to further confirm the lateral extent of the release. In addition, one borehole BH01 was advanced via hand auger within the release extent, however, the location of the boring was south of SS01, due to access restrictions in place at the time of delineation. Delineation borehole BH01 was advanced to 1 foot bgs where refusal with the hand auger was encountered. Discrete soil samples were collected at depths of 0.5 feet bgs and 1 foot bgs. The soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The soil samples were handled as described above at Cardinal in Hobbs, New Mexico.

Between October 9 and October 10, 2024, Ensolum personnel continued to evaluate the second release based on information provided on the C-141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected within and around the release extent from a depth of approximately 0.5 feet bgs. Temporary equipment, restricting access to the northern release extent had been removed. As such, three potholes (PH01 through PH03) were advanced via mini-excavator within the release extent to assess the vertical extent of the release. Discrete soil samples were collected at depths ranging from 0.5 feet bgs to 6 feet bgs. The soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The soil samples were handled as described above at Cardinal in Hobbs, New Mexico. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

### **LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for delineation soil samples SS01 through SS03, SS05, SS06 and SS11 through SS13 indicated all COC concentrations were in compliance with Site Closure Criteria and the strictest Table I Closure Criteria, successfully defining the lateral extent of both releases. Delineation soil samples SS04 and PH01 through PH03 indicated that TPH concentrations exceeded the Closure Criteria and/or strictest Table I Closure Criteria. Delineation soil samples PH02A/B/C, collected at depths of 4 feet, 5 feet, and 6 feet bgs respectively, were compliant with the Closure Criteria, successfully defining the vertical extent of both releases. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix D.

### **LINER INTEGRITY INSPECTION**

Because the release occurred within a lined containment, a 48-hour advance notice of the liner inspection was submitted to the NMOCD on September 3, 2024. The liner was cleared of all debris and fluids. A liner integrity inspection was conducted by Ensolum personnel on September 5, 2024. The lined containment was inspected and was determined to be operating as designed. Upon inspection, no rips, tears, holes, or damage were observed. The liner was determined to be sufficient. Photographic documentation of the inspection is included in Appendix B.

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 21 CVB

## PROPOSED REMEDIATION WORK PLAN

Laboratory analytical results indicate soil containing elevated TPH concentrations exist on pad across an approximate 3,245 square foot area and extends to a depth of approximately 5 feet bgs. As such, XTO proposes to complete the following remedial activities:

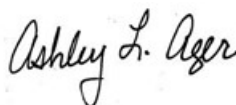
- Excavation of impacted soil to a maximum depth of 4 feet bgs. Excavation will proceed laterally, where possible, until sidewall samples confirm all COC concentrations are compliant with the strictest Table I Closure Criteria. The excavation will occur near active production equipment and surface piping, however, in order to maintain structural integrity and complete excavation safely, no mechanical excavation will occur within 2 feet of any active production equipment or surface or subsurface piping.
- An estimated 480 cubic yards of waste-containing soil will be excavated and disposed of at the R360 disposal facility in Hobbs, New Mexico.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. XTO will oversee the removal impacted/waste-containing soil to the maximum extent possible, however, it is anticipated that impacted and/or waste-containing soil will remain in place near and beneath active production equipment and surface piping and will need to be deferred until final abandonment of the pad.

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Ashley L. Ager, MS, PG  
Principal

cc: Dale Woodall, XTO  
Kaylan Dirkx, XTO  
SLO

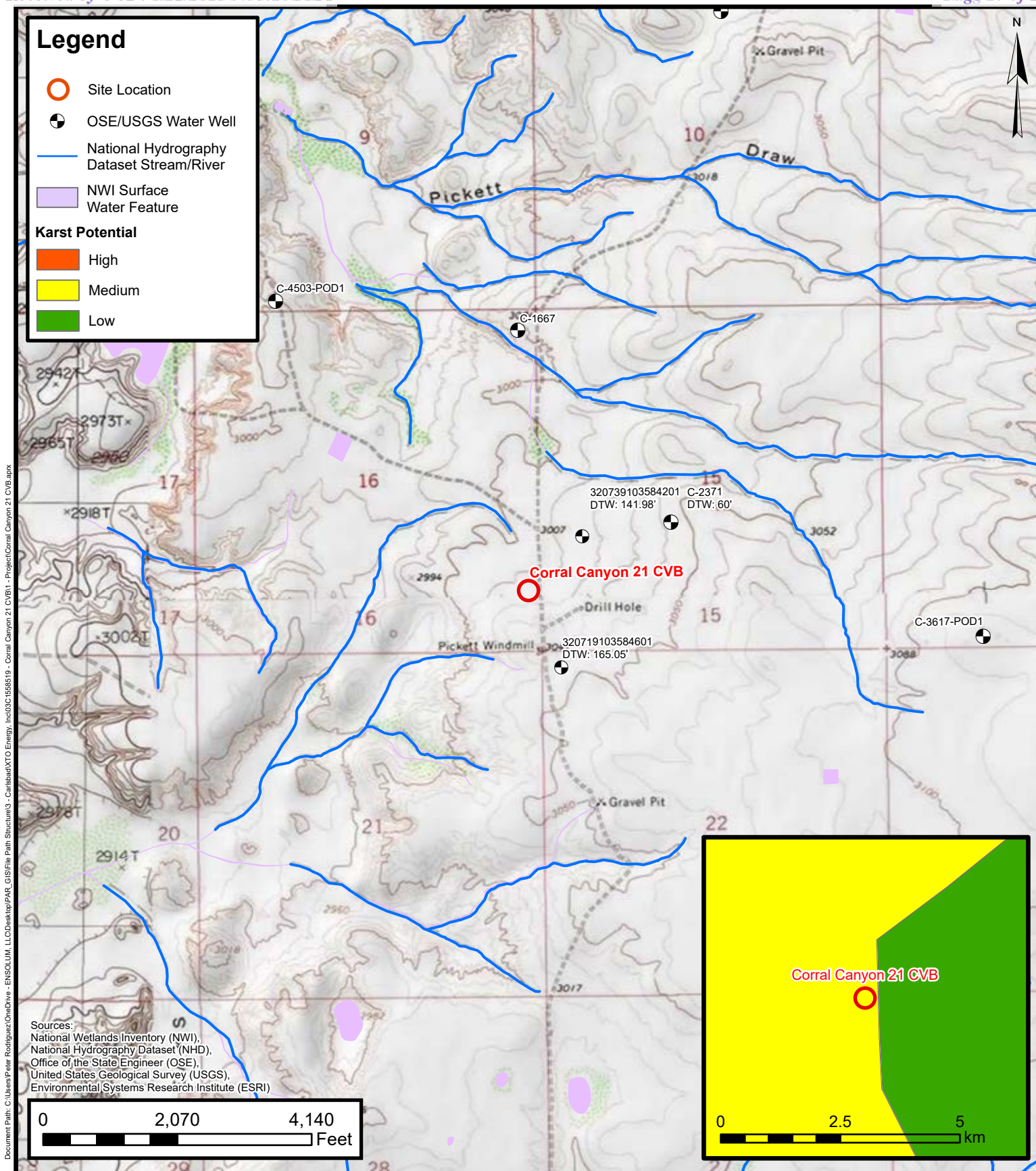
### Appendices:


Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations – Incident Number nAPP2417336593
Figure 3	Excavation Soil Sample Locations – Incident Number nAPP2417336593
Figure 4	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results – Incident Number nAPP2417336593
Table 2	Soil Sample Analytical Results – Incident Number nAPP2424045887
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



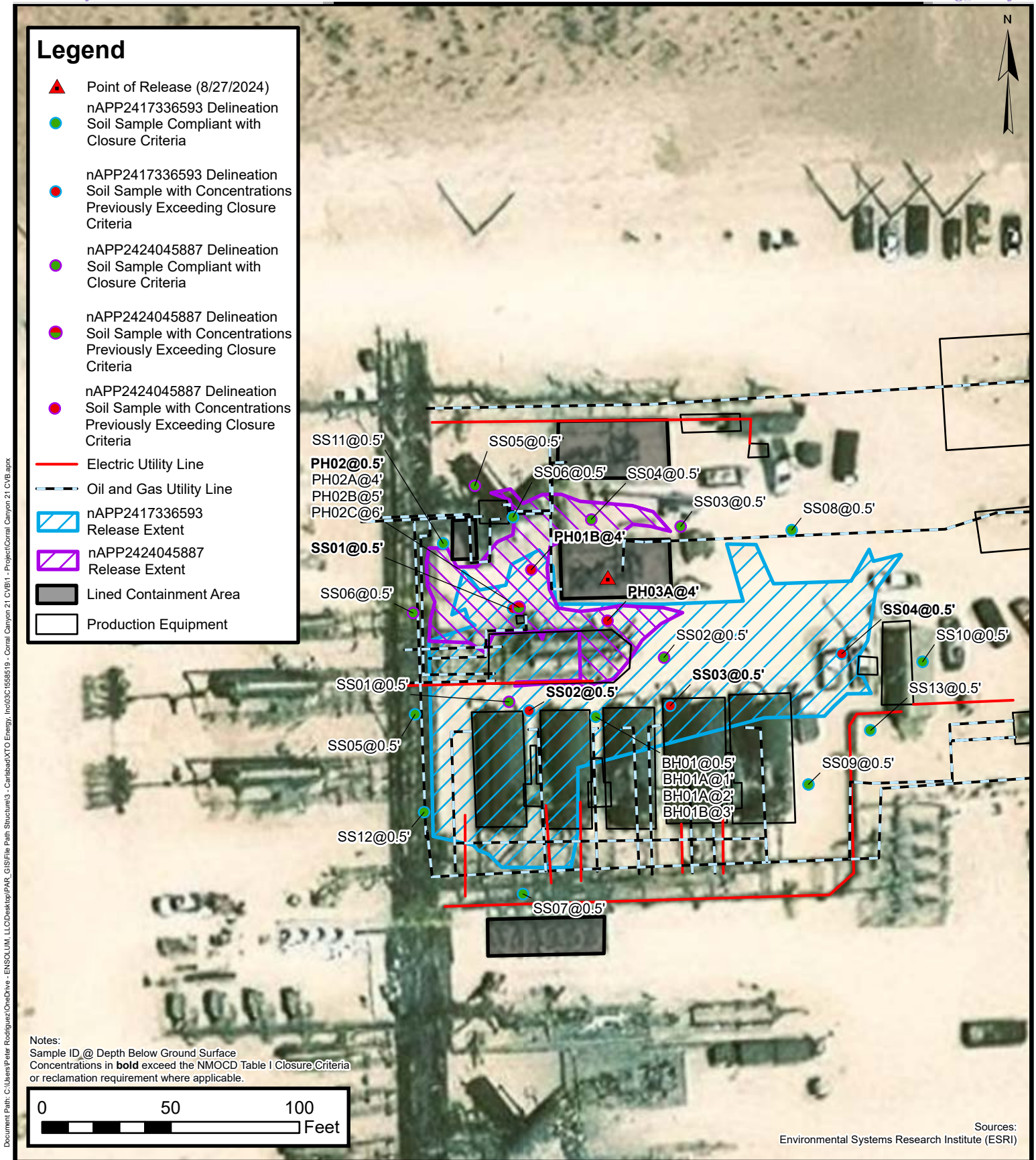
FIGURES





 <p><b>ENSOLUM</b> Environmental, Engineering and Hydrogeologic Consultants</p>	<h2 style="margin: 0;">Site Receptor Map</h2> <p style="margin: 5px 0;">XTO Energy, Inc Corral Canyon 21 CVB</p> <p style="margin: 5px 0;">Incident Number: nAPP2417336593 &amp; nAPP2424045887</p> <p style="margin: 5px 0;">Unit P, Sec 16, T 25S, R 29E Eddy County, New Mexico</p>	<p style="font-size: 1.2em; margin: 0;">FIGURE</p> <p style="font-size: 2em; margin: 0;">1</p>
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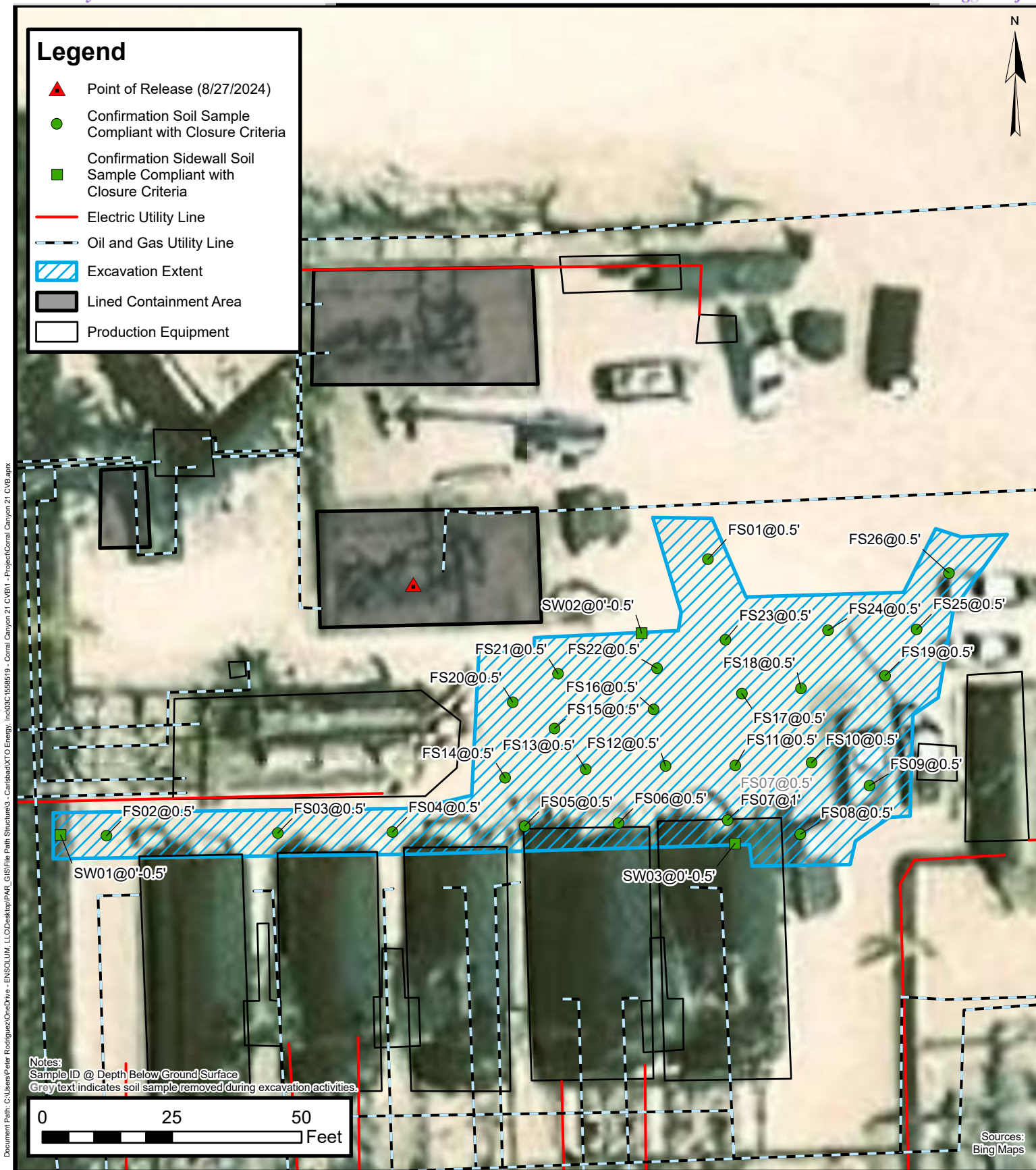




## Delineation Sample Locations

XTO Energy, Inc  
Corral Canyon 21 CVB  
Incident Number: nAPP2417336593 & nAPP2424045887  
Unit P, Sec 16, T 25S, R 29E  
Eddy County, New Mexico

**FIGURE**  
**2**

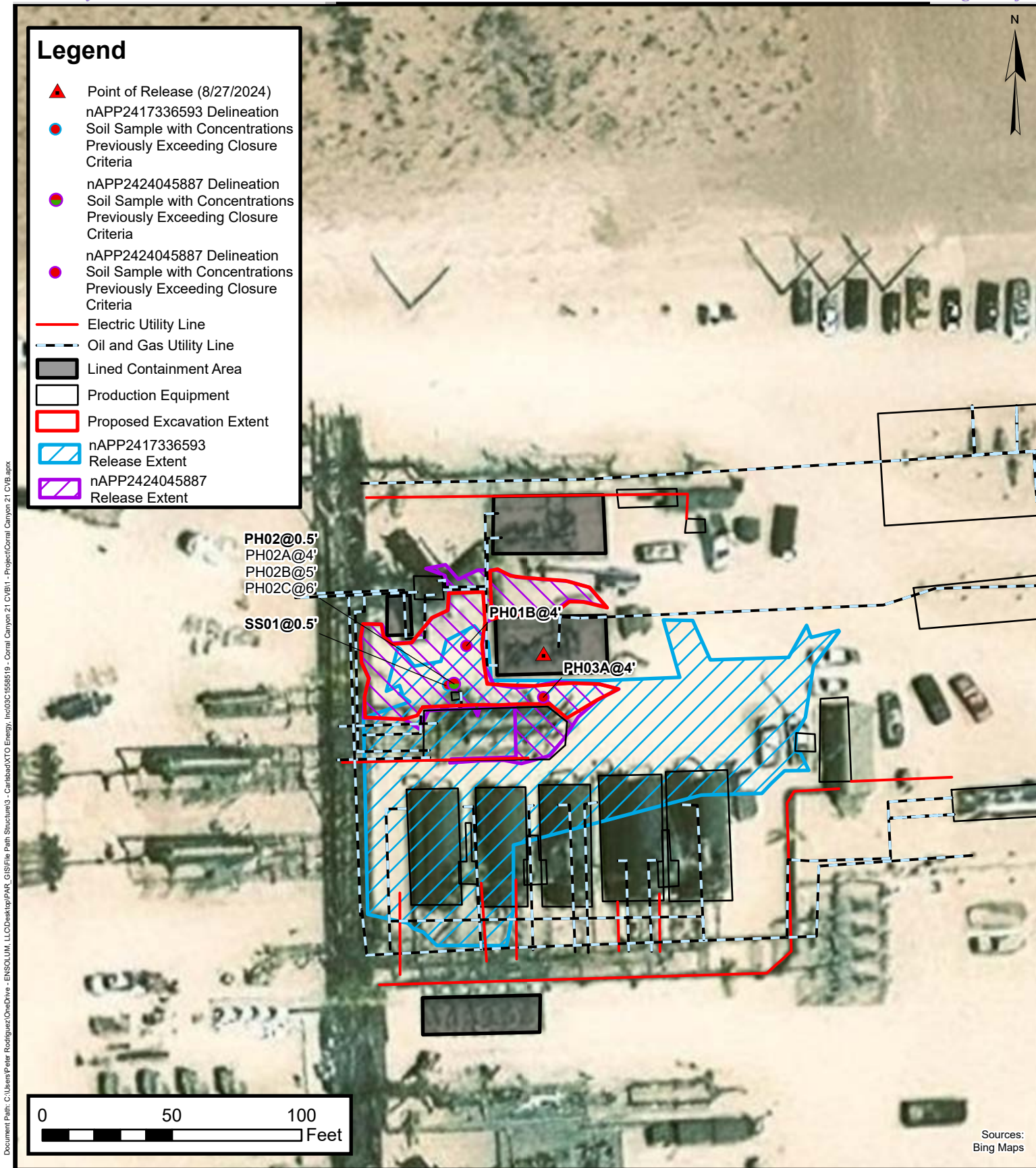


## Excavation Sample Locations

XTO Energy, Inc  
 Corral Canyon 21 CVB  
 Incident Number: nAPP2417336593 & nAPP2424045887  
 Unit P, Sec 16, T 25S, R 29E  
 Eddy County, New Mexico

**FIGURE**  
**3**





## Proposed Excavation Extent

XTO Energy, Inc  
Corral Canyon 21 CVB  
Incident Number: nAPP2417336593 & nAPP2424045887  
Unit P, Sec 16, T 25S, R 29E  
Eddy County, New Mexico

**FIGURE**  
**4**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593**  
**Corral Canyon 21 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	06/17/2024	0.5	<0.050	<0.300	27.5	8,510	1,190	8,538	9,728	9,730
SS02	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,560
SS03	06/17/2024	0.5	<0.050	0.993	171	5,500	638	5,671	6,309	6,000
SS04	06/17/2024	0.5	<0.050	0.858	164	5,930	770	6,094	6,864	2,640
SS05	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS06	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS07	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS08	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS09	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10	06/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS11	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS12	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS13	08/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH01	08/30/2024	0.5	<0.50	<0.300	<10.0	77.4	<10.0	77.4	77.4	416
BH01A	08/30/2024	1	<0.050	<0.300	<10.0	126	12.8	126	149	336
BH01A	10/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH01B	10/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
Confirmation Soil Samples										
FS01	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS02	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS03	07/03/2024	0.5	<0.050	<0.300	<10.0	19.1	<10.0	19.1	19.1	128
FS04	07/03/2024	0.5	<0.050	<0.300	<10.0	11.1	<10.0	11.1	11.1	128
FS05	07/03/2024	0.5	<0.050	<0.300	<10.0	19.9	<10.0	19.9	19.9	128
FS06	07/03/2024	0.5	<0.050	<0.300	<10.0	18.9	<10.0	18.9	18.9	128
FS07	07/03/2024	0.5	<0.050	<0.300	<10.0	107	22.4	107	129	144
FS07	07/26/2024	1	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	80.0
FS08	07/03/2024	0.5	<0.050	<0.300	<10.0	17.6	<10.0	17.6	17.6	112
FS09	07/03/2024	0.5	<0.050	<0.300	<10.0	24.5	<10.0	24.5	24.5	128





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593**  
**Corral Canyon 21 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
FS10	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS11	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS12	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS14	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS15	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS16	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS17	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS18	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS20	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS21	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS22	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS23	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS24	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS25	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	07/03/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW01	07/03/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW02	07/03/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW03	07/03/2024	0 - 0.5	<0.500	<0.300	<10.0	13.2	<10.0	13.2	13.2	128

## 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



**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2424045887**  
**Corral Canyon 21 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
Assessment Soil Samples										
SS01	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS02	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS03	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	10/10/2024	0.5	<0.050	<0.300	<10.0	198	72.2	270.2	270.2	48.0
SS05	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Delineation Soil Samples										
PH01	10/09/2024	0.5	<0.050	<0.300	<10.0	277	43	277	320	144
PH01A	10/09/2024	3	<0.050	18.7	388	2,650	351	<b>3,038</b>	<b>3,389</b>	560
PH01B	10/10/2024	4	<0.050	6.67	150	1,790	291	<b>1,940</b>	2,231	416
PH02	10/10/2024	0.5	<0.100	49.7	1,060	5,130	752	<b>6,190</b>	<b>6,942</b>	160
PH02A	10/10/2024	4	<0.050	<0.300	<10.0	118	18.9	118	137	48.0
PH02B	10/10/2024	5	<0.050	<0.300	<10.0	63.8	<10.0	63.8	63.8	32.0
PH02C	10/10/2024	6	<0.050	0.565	16.1	327	43.7	343	387	16.0
PH03	10/09/2024	1	0.962	<b>186</b>	3,380	7,000	765	<b>10,380</b>	<b>11,145</b>	2,000
PH03A	10/10/2024	4	<0.050	10.6	331	1,890	262	<b>2,221</b>	2,483	400

## 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

---



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320739103584201

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

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico  
Latitude 32°07'39", Longitude 103°58'42" NAD27  
Land-surface elevation 3,017 feet above NAVD88  
The depth of the well is 192 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measur
1983-02-01			D 62610		2875.02	NGVD29	1		Z	
1983-02-01			D 62611		2876.60	NAVD88	1		Z	
1983-02-01			D 72019	140.40			1		Z	
1987-10-20			D 62610		2875.09	NGVD29	1		Z	
1987-10-20			D 62611		2876.67	NAVD88	1		Z	
1987-10-20			D 72019	140.33			1		Z	
1992-11-06			D 62610		2874.61	NGVD29	1		S	
1992-11-06			D 62611		2876.19	NAVD88	1		S	
1992-11-06			D 72019	140.81			1		S	
1998-01-29			D 62610		2874.52	NGVD29	1		S	
1998-01-29			D 62611		2876.10	NAVD88	1		S	
1998-01-29			D 72019	140.90			1		S	

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

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[Automated retrievals](#)  
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[Explanation of terms](#)  
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[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2024-06-10 14:25:55 EDT  
0.28 0.25 nadww01





Project No.: 03C1558519 Page 1 of 1  
Date: 10/9/24  
By: David McInnis

[illegible]



## APPENDIX B

### Photographic Log

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# Photographic Log

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 & nAPP2424045887



Photograph: 1 Date: 10/9/2024  
Description: Depth to groundwater gauging  
View: North



Photograph: 2 Date: 6/17/2024  
Description: Site assessment activities  
View: Southwest



Photograph: 3 Date: 6/28/2024  
Description: Excavation activities  
View: Southwest



Photograph: 4 Date: 7/2/2024  
Description: Excavation activities  
View: Southwest



# Photographic Log

XTO Energy, Inc

Corral Canyon 21 CVB

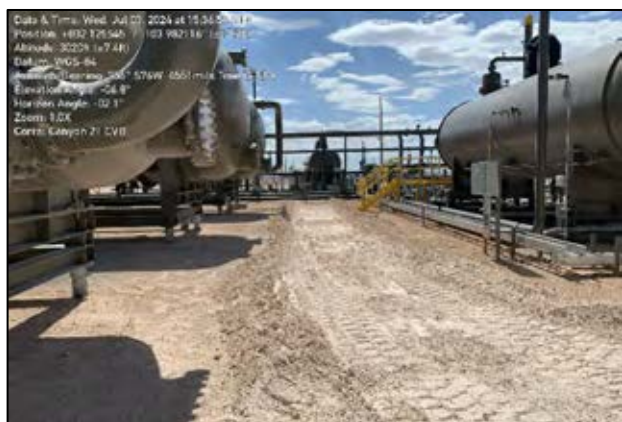
nAPP2417336593 & nAPP2424045887



Photograph: 5 Date: 7/2/2024  
Description: Excavation activities  
View: Southeast



Photograph: 6 Date: 7/3/2024  
Description: Excavation activities  
View: Southwest



Photograph: 7 Date: 7/3/2024  
Description: Excavation activities  
View: Southwest



Photograph: 8 Date: 8/30/2024  
Description: Delineation activities  
View: South



**Photographic Log**

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 &amp; nAPP2424045887



Photograph: 9                      Date: 8/30/2024  
Description: Backfilled excavation and new release  
View: West



Photograph: 10                      Date: 9/5/2024  
Description: Liner inspection activities  
View: Southwest



Photograph: 11                      Date: 9/5/2024  
Description: Liner inspection activities  
View: West



Photograph: 12                      Date: 9/5/2024  
Description: Liner inspection activities  
View: North



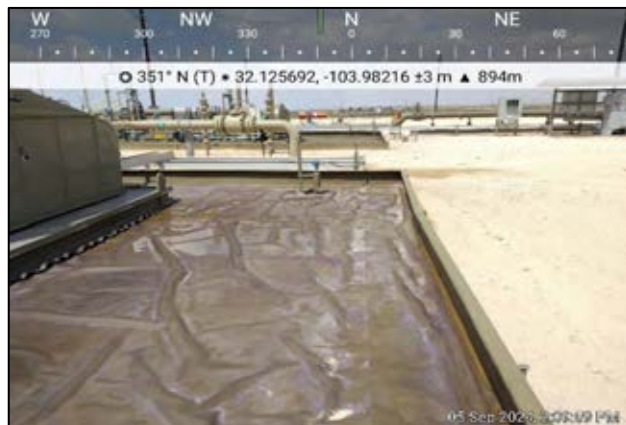


# Photographic Log

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 & nAPP2424045887



Photograph: 13 Date: 9/5/2024  
Description: Liner inspection activities  
View: North



Photograph: 14 Date: 10/9/2024  
Description: Delineation activities  
View: West



Photograph: 15 Date: 10/10/2024  
Description: Delineation activities  
View: West




Photograph: 16 Date: 10/10/2024  
Description: Delineation activities  
View: North


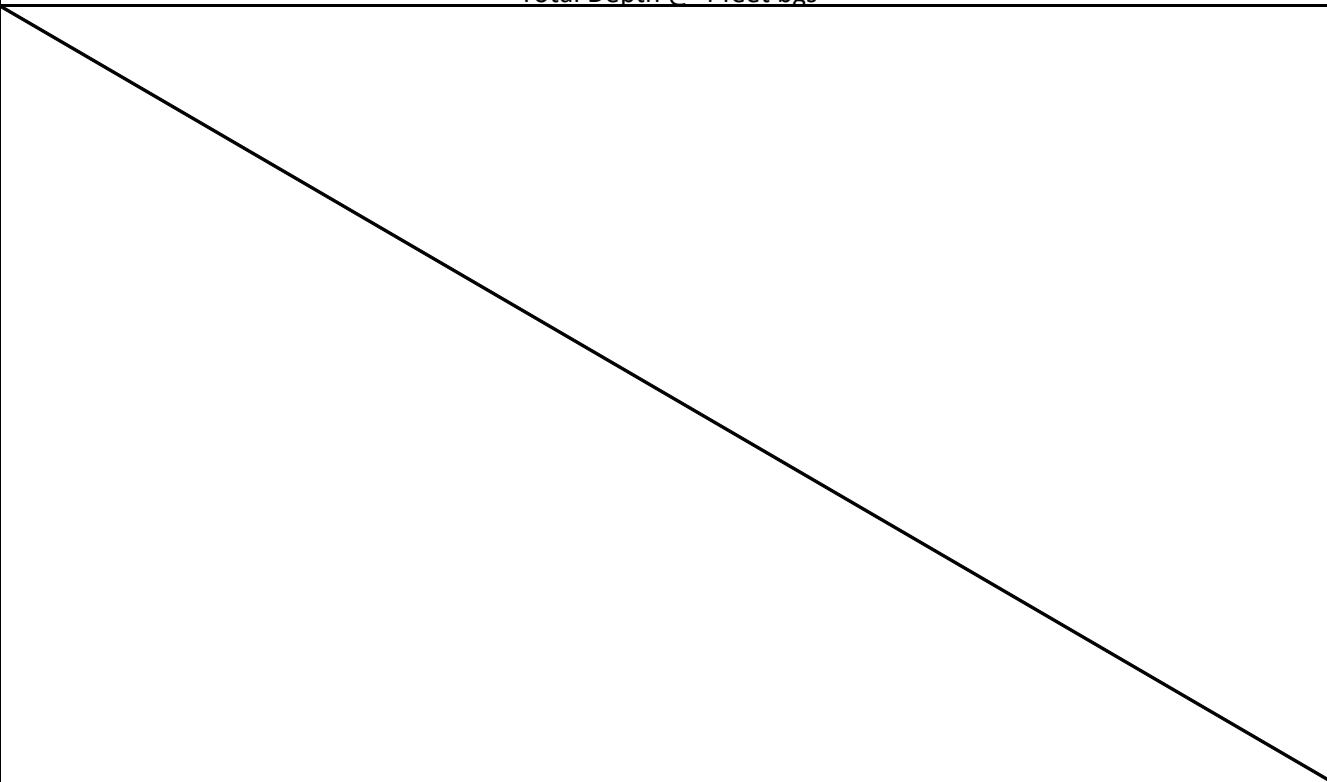



## APPENDIX C

### Lithologic Soil Sampling Logs


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 <b>ENSOLUM</b>		Sample Name: BH01		Date: 8/30/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2417336593						
		Job Number: 03C1558439						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: DM		Method: Hand Auger		
Coordinates: 32.125550, -103.982293				Hole Diameter: 4"		Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-1') CALICHE, light brown, fine grained
D	832	4.5	N	BH01	0.5			
D	328	0.1	N	BH01A	1	1		
Total Depth @ 1-foot bgs								

 <b>ENSOLUM</b>		Sample Name: PH01		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.125717, -103.982331			Logged By: JD		Method: Hand Auger/Core Drill			
			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. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded
D	<168	68.4	Y	PH01	0.5			
D	-	160.3	N		1	1		
D	-	124	N		2	2		
D	-	105	N	PH01A	3	3		
D	459	339	N	PH01B	4	4		
Total Depth @ 4 feet bgs								
								

 <b>ENSOLUM</b>		Sample Name: PH02		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.125688, -103.982332			Logged By: JD		Method: Hand Auger/Core Drill			
			Hole Diameter: 4"		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-5') CALICHE, tan, with silt, poorly graded
D	<168	1,060	Y	PH02	0.5			
D	<168	959	N		1	1		
D	<168	736	N		2	2		
D	<168	791	N		3	3		
D	<168	144	N	PH02A	4	4		
D	<168	168	N	PH02B	5	5		(5-6') with black silt
D	<168	204	N	PH02C	6	6		
Total Depth @ 6 feet bgs								



 <b>ENSOLUM</b>		Sample Name: PH03		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.125664, -103.982236			Logged By: JD		Method: Hand Auger/Core Drill			
			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. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded
D	-	1,758	N	PH03	1	1		
D	1,848	1,703	N		2	2		
D	1,388	1,668	N		3	3		
D	515	1,600	N	PH03	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

June 27, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 14:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Coley D. Keene", 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 01 0.5' (H243642-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2024	ND	1.91	95.3	2.00	0.524	
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720	
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148	
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212	
Total BTX	<0.300	0.300	06/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	9730	16.0	06/24/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	27.5	10.0	06/24/2024	ND	211	106	200	1.86		
DRO >C10-C28*	8510	10.0	06/24/2024	ND	211	105	200	1.78		
EXT DRO >C28-C36	1190	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 207 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 02 0.5' (H243642-02)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	06/24/2024	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 03 0.5' (H243642-03)**

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	06/25/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/25/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.01	100	2.00	0.148	GC-NC	
Total Xylenes*	0.993	0.150	06/25/2024	ND	5.91	98.5	6.00	0.212	GC-NC1	
Total BTEX	0.993	0.300	06/25/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	
<b>Chloride</b>	<b>6000</b>	16.0	06/24/2024	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*	171	10.0	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	5500	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	638	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 04 0.5' (H243642-04)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148	GC-NC	
Total Xylenes*	0.858	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212	GC-NC1	
Total BTEX	0.858	0.300	06/24/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	
<b>Chloride</b>	<b>2640</b>	16.0	06/24/2024	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*	164	10.0	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	5930	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	770	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 158 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 05 0.5' (H243642-05)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 06 0.5' (H243642-06)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 62.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 07 0.5' (H243642-07)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 08 0.5' (H243642-08)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 09 0.5' (H243642-09)**

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	06/24/2024	ND	1.91	95.3	2.00	0.524		
Toluene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	0.0720		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.148		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.91	98.5	6.00	0.212		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/20/2024  
Reported: 06/27/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558439  
Project Location: XTO 32.12544,-103.98241

Sampling Date: 06/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 10 0.5' (H243642-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.93	96.5	2.00	8.93		
Toluene*	<0.050	0.050	06/24/2024	ND	1.91	95.6	2.00	3.82		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.87	93.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.55	92.4	6.00	1.68		
Total BTEx	<0.300	0.300	06/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/24/2024	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	06/24/2024	ND	211	106	200	1.86	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	211	105	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "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

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: David McInnis		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Amy Ruth			
Phone #: 409 454 3009		Address: 3104 E Green St			
Fax #: Project Owner: XTO		City: Carlsbad			
Project #: 03C1558439		State: NM Zip: 88220			
Project Name: Corral Canyon 21 CVB		Phone #:			
Project Location: 32.12544, 103.98241		Fax #:			
Sampler Name: Joshua Boxley					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	
HP43642	5501	0.5'		4	
	5502				
	5503				
	5504				
	5505				
	5506				
	5507				
	5508				
	5509				
	5510	0.5'			
			MATRIX	PRESERV.	SAMPLING
			GROUNDWATER		
			WASTEWATER		
			SOIL		
			OIL		
			SLUDGE		
			OTHER :		
			ACID/BASE:		
			ICE / COOL		
			OTHER :		
			DATE	TIME	
			6/17/24	10:10	X
			6/17/24	10:15	X
			6/17/24	10:55	X
			6/17/24	11:00	X
			6/17/24	11:10	X
			6/17/24	11:15	X
			6/17/24	11:20	X
			6/17/24	11:30	X
			6/17/24	11:35	X
			6/17/24	11:40	X
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Relinquished By: [Signature]		Date: 6-20-24		Time: 1418	
Relinquished By: [Signature]		Date: 6-20-24		Time: 1418	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact Yes No	
		15		Cool Intact Yes No	
				Checked By: (Initials)	
				Turnaround Time: Standard Rush	
				Thermometer ID #443	
				Correction Factor: 0.5°C	
				Bacteria (only) Sample Condition	
				Cool Intact Yes No	
				Observed Temp. °C	
				Corrected Temp. °C	





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July 15, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB HEATER TREATER DUMP LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/09/24 13:57.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 01 0.5' (H244067-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7	
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6	
Total BTX	<0.300	0.300	07/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/10/2024	ND	432	108	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	07/11/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 02 0.5' (H244067-02)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	07/10/2024	ND	432	108	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	07/11/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 03 0.5' (H244067-03)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	19.1	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 04 0.5' (H244067-04)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	11.3	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 05 0.5' (H244067-05)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	19.9	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 06 0.5' (H244067-06)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7	
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6	
Total BTEx	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	18.9	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 07 0.5' (H244067-07)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	107	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	22.4	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 08 0.5' (H244067-08)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	17.6	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 09 0.5' (H244067-09)**

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	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	24.5	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 10 0.5' (H244067-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 11 0.5' (H244067-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 12 0.5' (H244067-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 13 0.5' (H244067-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 14 0.5' (H244067-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 15 0.5' (H244067-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	144	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 16 0.5' (H244067-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.01	100	6.00	17.6		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 17 0.5' (H244067-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	144	16.0	07/10/2024	ND	432	108	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	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



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 18 0.5' (H244067-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/10/2024	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 19 0.5' (H244067-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	07/10/2024	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	07/10/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 20 0.5' (H244067-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	07/10/2024	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	07/11/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 63.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 21 0.5' (H244067-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/10/2024	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	07/11/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 22 0.5' (H244067-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	07/10/2024	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	07/11/2024	ND	182	90.8	200	0.907	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	175	87.3	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 23 0.5' (H244067-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 24 0.5' (H244067-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 25 0.5' (H244067-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 26 0.5' (H244067-26)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 01 0-0.5' (H244067-27)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 02 0-0.5' (H244067-28)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/09/2024	Sampling Date:	07/03/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C15584391	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 03 0-0.5' (H244067-29)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.94	97.0	2.00	2.89		
Toluene*	<0.050	0.050	07/11/2024	ND	1.97	98.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.12	106	2.00	3.04		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.25	104	6.00	2.85		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/10/2024	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	07/10/2024	ND	189	94.4	200	2.23	
DRO >C10-C28*	13.2	10.0	07/10/2024	ND	198	99.2	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "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

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: David Mcinnis dmcinnis@ensolum.com		Company: XTO Energy Inc.			
Address: 3122 National Parks Hwy		Attn: Amy Ruth			
City: Carlsbad		Address: 3104 E. Green St.			
Phone #: 337 257-8307		City: Carlsbad			
State: NM Zip: 88220		State: NM Zip: 88220			
Project #: 03C15584391		Phone #:			
Project Name: Corral Canyon 21 CVB Heater Treater Dump Line		Fax #:			
Project Location:		SAMPLING			
Sample Name: Connor Whitman		DATE			
FOR LAB USE ONLY		TIME			
Lab I.D.		BTEX			
Sample I.D.		TPH			
Sample Depth (feet)		CHLORIDE			
(G)RAB OR (C)OMP.					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE					
TIME					
F501		1115			
F502		1120			
F503		1125			
F504		1130			
F505		1135			
F506		1140			
F507		1145			
F508		1150			
F509		1155			
F510		1200			

PLEASE NOTE: Liability and Damages. Customer hereby and warrant exclusive remedy for any claim arising from this contract or work, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be determined without a hearing and received by Client within 30 days after completion of the applicable service. In no event shall Client be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Client, regardless of whether such claim is based upon any of the above stated theories of negligence.

Relinquished By: *ETW* Date: *7-3-24* Received By: *AP*

Relinquished By: *ETW* Date: *7-3-24* Received By: *AP*

Delivered By: (Circle One) *Standard* Turnaround Time: *7-3-24* *Standard* ☒ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Observed Temp. °C ☐ Yes ☐ No ☐ Corrected Temp. °C

Sampler - UPS - Bus - Other: *UPS* Cool ☐ Intact ☐ Observed Temp. °C ☐ Yes ☐ No ☐ Corrected Temp. °C

Remarks: *Cost Center 2243641001 Incident ID: NAPP2417336593*

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address: *dbell@ensolum.com, TMorrissey@ensolum.com, dmcinnis@ensolum.com*

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

<b>Company Name:</b> Ensolum, LLC		<b>P.O. #:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
<b>Project Manager:</b> David Mcinnis dmcinnis@ensolum.com		<b>Company:</b> XTO Energy Inc.									
<b>Address:</b> 3122 National Parks Hwy		<b>Attn:</b> Amy Ruth									
<b>City:</b> Carlsbad	<b>State:</b> NM	<b>Zip:</b> 88220	<b>Address:</b> 3104 E. Green St.								
<b>Phone #:</b> 337 257-8307	<b>Fax #:</b>	<b>City:</b> Carlsbad									
<b>Project #:</b> 03C15584391	<b>Project Owner:</b> XTO		<b>State:</b> NM			<b>Zip:</b> 88220					
<b>Project Name:</b> Corral Canyon 21 CVB Heater Treater Dump Line		<b>Phone #:</b>									
<b>Project Location:</b>		<b>Fax #:</b>									
<b>Sampler Name:</b> Connor Whitman											

FOR LAB USE ONLY		Sample Depth (feet)		MATRIX		PRESERVATION		SAMPLING		ANALYSIS										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	DATE	TIME	BTEX	TPH	CHLORIDE						
H244067	FS11	Q.S	1							7-5-24	1205									
12	FS12										1210									
13	FS13										1215									
14	FS14										1220									
15	FS15										1225									
14	FS16										1230									
17	FS17										1235									
18	FS18										1240									
19	FS19										1245									
20	FS20										1250									

\*PLEASE NOTE: Liability and Damages. Cardon's liability and claims exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardon within 30 days after completion of the applicable service. In no event shall Cardon 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 acting and/or related to the performance of services hereunder by Cardon. Satisfaction of whether such claim is barred upon any of the above stated remedies or otherwise.

<b>Relinquished By:</b>	<b>Date:</b> 7-9-24	<b>Received By:</b>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
<b>Relinquished By:</b>	<b>Type:</b> 1551	<b>Received By:</b>	<b>All Results are emailed. Please provide Email address:</b>
<b>Time:</b>			bbeili@ensolum.com, T.Morrissey@ensolum.com, dmcinnis@ensolum.com
<b>REMARKS:</b>	Cool Center: 2243641001 Incident ID: NAPP2417335593		

<b>Delivered By:</b> (Circle One) <b>Sampler - UPS - Bus - Other:</b>	<b>Observed Temp.: °C</b> <b>Corrected Temp.: °C</b>	<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>CHECKED BY:</b> (Initials)	<b>Turnaround Time:</b> Standard Rush Thermometer ID: 101024 Correction Factor: 0.5°C	<b>Bacteria (only)</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>Sample Condition</b> Observed Temp.: °C Corrected Temp.: °C
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+ Cardinal cannot accept verbal changes. Please email changes to cately.keene@cardinallabsnm.com





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

343

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST			
Project Manager: David Mcinnis dmclnns@ensolum.com		P.O. #:					
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.					
City: Carlsbad		Attn: Amy Ruth					
Phone #: 337 257-8307		Address: 3104 E. Green St.					
Fax #: 337 257-8307		City: Carlsbad					
Project #: 03C15584391		State: NM Zip: 88220					
Project Name: Corral Canyon 21 CVB Heater Treater Dump Line		Phone #:					
Project Location:		Fax #:					
Sampler Name: Connor Whitman		FOR LAB USE ONLY					
Lab I.D.		Sample I.D.		Sample Depth (feet)			
H24467		F521		0.5			
21		F522		1			
22		F523		1			
23		F524		1			
24		F525		1			
25		F526		1			
26		F527		1			
27		F528		1			
28		F529		1			
29		F530		1			
		F531		1			
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		F766		1			
		F767		1			
		F768		1			
		F769		1			
		F770		1			



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

August 02, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB HEATER TREATER DUMP LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB HEATER TREA	Sampling Condition:	Cool & Intact
Project Number:	03C1558439	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544,-103.98241		

**Sample ID: FS07 1' (H244535-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTX	<0.300	0.300	07/31/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	10.4	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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

---

Cardinal Laboratories

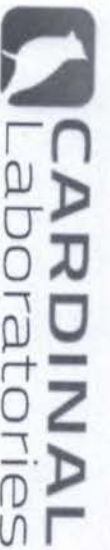
\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: David McInnis		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy			
City: Carlbad		Attn: Amy Ruth			
State: NM zip: 88220		Address: 3104 E Green St			
Phone #: 409 454 3009		City: Carlbad			
Fax #: 03C1558439		State: NM zip: 88220			
Project Name: Corral Canyon 21 CNB Heater Tester Pump		Phone #:			
Project Location: 32.12544, -103.98241		Fax #:			
Sampler Name: Uriel Santillana					

FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	DATE
		GROUNDWATER		X	Chloride
		WASTEWATER			
		SOIL		X	BTEx
		OIL			
		SLUDGE		X	
		OTHER :			
		ACID/BASE:		X	
		ICE / COOL			
		OTHER :		X	

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Relinquished By:	Received By:
Date: 7/30/24	Date: 7/26/24
Time: 1425	Time: 923
Relinquished By:	Received By:
Date: 7/30/24	Date: 7/26/24
Time: 1425	Time: 923

Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Standard	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Standard	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Corrected Temp. °C	

Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
All Results are emailed. Please provide Email address:			
Dmcinnis@ensolum.com			
REMARKS: Cost center: 2243641001			
Incident # 2417336593			



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

September 03, 2024

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CORAL CANYON 21CVB HEATER TREATER

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 16:46.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/03/2024	Sampling Type:	Soil
Project Name:	CORAL CANYON 21CVB HEATER TREATE	Sampling Condition:	Cool & Intact
Project Number:	03C1558437	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544, -103.98241		

**Sample ID: BH 01 0.5' (H245321-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2024	ND	1.89	94.5	2.00	1.96	
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36	
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31	
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43	
Total BTX	<0.300	0.300	09/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/03/2024	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	09/03/2024	ND	184	92.2	200	0.304	
DRO >C10-C28*	77.4	10.0	09/03/2024	ND	190	95.1	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/03/2024	Sampling Type:	Soil
Project Name:	CORAL CANYON 21CVB HEATER TREATE	Sampling Condition:	Cool & Intact
Project Number:	03C1558437	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544, -103.98241		

**Sample ID: BH 01A 1' (H245321-02)**

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	09/03/2024	ND	1.89	94.5	2.00	1.96		
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36		
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31		
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43		
Total BTEX	<0.300	0.300	09/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	336	16.0	09/03/2024	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	09/03/2024	ND	184	92.2	200	0.304	
DRO >C10-C28*	126	10.0	09/03/2024	ND	190	95.1	200	3.93	
EXT DRO >C28-C36	12.8	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/03/2024	Sampling Type:	Soil
Project Name:	CORAL CANYON 21CVB HEATER TREATE	Sampling Condition:	Cool & Intact
Project Number:	03C1558437	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544, -103.98241		

**Sample ID: SS 11 0.5' (H245321-03)**

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	09/03/2024	ND	1.89	94.5	2.00	1.96		
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36		
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31		
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43		
Total BTEx	<0.300	0.300	09/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/03/2024	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	09/03/2024	ND	184	92.2	200	0.304	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	190	95.1	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/03/2024	Sampling Type:	Soil
Project Name:	CORAL CANYON 21CVB HEATER TREATE	Sampling Condition:	Cool & Intact
Project Number:	03C1558437	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544, -103.98241		

**Sample ID: SS 12 0.5' (H245321-04)**

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	09/03/2024	ND	1.89	94.5	2.00	1.96	
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36	
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31	
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43	
Total BTEX	<0.300	0.300	09/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	48.0	16.0	09/03/2024	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	09/03/2024	ND	184	92.2	200	0.304	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	190	95.1	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/30/2024	Sampling Date:	08/30/2024
Reported:	09/03/2024	Sampling Type:	Soil
Project Name:	CORAL CANYON 21CVB HEATER TREATE	Sampling Condition:	Cool & Intact
Project Number:	03C1558437	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.12544, -103.98241		

**Sample ID: SS 13 0.5' (H245321-05)**

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	09/03/2024	ND	1.89	94.5	2.00	1.96		
Toluene*	<0.050	0.050	09/03/2024	ND	1.84	92.0	2.00	1.36		
Ethylbenzene*	<0.050	0.050	09/03/2024	ND	1.85	92.6	2.00	1.31		
Total Xylenes*	<0.150	0.150	09/03/2024	ND	5.53	92.1	6.00	1.43		
Total BTEX	<0.300	0.300	09/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	09/03/2024	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	09/03/2024	ND	184	92.2	200	0.304	
DRO >C10-C28*	<10.0	10.0	09/03/2024	ND	190	95.1	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	09/03/2024	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



101 East Maryland, Hobbs, NM 88340  
(505) 393-2328 FAX (505) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Envirochem, LLC

Project Manager:

Address: 601 N. Merriwell St. Ste. 400

City: Midland

Phone #: 409.454.3809

Project #: 03C1858437

Project Name: Coral Canyon 21CVB Heater Treater

Project Location: 32.12544, -103.98241

Sample Name: David McInnis

FOR LAB USE ONLY

P.O. #

Company: XTO Energy

Address: Amy Ruth

Address: 304 E. Green St.

City: Carlsbad

State: NM Zip: 87220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			Chloride	TPH	BTEX	
4245321	3401	0.5'	G	1	X						8/30/24	1340	X	X	X	
	9H614	1'	G	1	X						8/30/24	1342	X	X	X	
	5511	0.5'	G	1	X						8/30/24	1344	X	X	X	
	5512	0.5'	G	1	X						8/30/24	1346	X	X	X	
	5513	0.5'	G	1	X						8/30/24	1350	X	X	X	

FOR LAB USE ONLY

Received By:

Refined/Revised By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Box - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Inlet

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Flush

Cool Inlet

Backsiphon (push)

Sample Condition

Observed Temp. °C

Corrected Temp. °C

† Cardfrol cannot accept verbal changes. Please email changes to [enq@cardrol.com](mailto:enq@cardrol.com)



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

October 14, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 HEATER TREATER

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/10/2024  
Reported: 10/14/2024  
Project Name: CORRAL CANYON 21 HEATER TREATER  
Project Number: 03C1558439  
Project Location: XTO 32.125040, -103.981430

Sampling Date: 10/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH01 A 2 (H246172-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54	
Toluene*	0.059	0.050	10/11/2024	ND	2.10	105	2.00	4.99	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31	
Total BTX	<0.300	0.300	10/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/11/2024	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	10/11/2024	ND	195	97.7	200	3.92	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	191	95.6	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/10/2024  
Reported: 10/14/2024  
Project Name: CORRAL CANYON 21 HEATER TREATER  
Project Number: 03C1558439  
Project Location: XTO 32.125040, -103.981430

Sampling Date: 10/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH01 B 3 (H246172-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.04	102	2.00	5.54		
Toluene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.99		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	4.30		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.27	104	6.00	4.31		
Total BTEx	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/11/2024	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	10/11/2024	ND	195	97.7	200	3.92	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	191	95.6	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



Company Name: Envision, LLC

P.O. No.

Colton Brown

Address: 3104 E. Green St.

DATE: CAR/IS bad

Phone #: \_\_\_\_\_

Figure 11:

Figure 11:

OR (C)OMP.
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Received By: \_\_\_\_\_

11

Stodden

Coal Interlock

not accept verbal changes. Please email

If you cannot access web changes, please email changes to [editor@journalofherpetology.com](mailto:editor@journalofherpetology.com)

Page 5 of 5



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

October 14, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/10/2024  
Reported: 10/14/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

Sampling Date: 10/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01 .5' (H246171-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.10	105	2.00	2.37	
Toluene*	<0.050	0.050	10/11/2024	ND	2.01	100	2.00	1.33	
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.01	101	2.00	0.760	
<b>Total Xylenes*</b>	<b>0.193</b>	0.150	10/11/2024	ND	6.00	100	6.00	0.794	
Total BTX	<0.300	0.300	10/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	10/11/2024	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	10/11/2024	ND	195	97.7	200	3.92	
<b>DRO &gt;C10-C28*</b>	<b>277</b>	10.0	10/11/2024	ND	191	95.6	200	2.95	
<b>EXT DRO &gt;C28-C36</b>	<b>43.2</b>	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/10/2024  
Reported: 10/14/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

Sampling Date: 10/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01A 3 (H246171-02)**

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	10/11/2024	ND	2.10	105	2.00	2.37	
Toluene*	1.64	0.050	10/11/2024	ND	2.01	100	2.00	1.33	
Ethylbenzene*	1.11	0.050	10/11/2024	ND	2.01	101	2.00	0.760	GC-NC1
Total Xylenes*	16.0	0.150	10/11/2024	ND	6.00	100	6.00	0.794	
Total BTEx	18.7	0.300	10/11/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 300 % 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	560	16.0	10/11/2024	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*	388	10.0	10/11/2024	ND	195	97.7	200	3.92	
DRO >C10-C28*	2650	10.0	10/11/2024	ND	191	95.6	200	2.95	
EXT DRO >C28-C36	351	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/10/2024  
Reported: 10/14/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

Sampling Date: 10/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 03 1 (H246171-03)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.962</b>	0.500	10/14/2024	ND	2.10	105	2.00	2.37	GC-NC1
<b>Toluene*</b>	<b>29.7</b>	0.500	10/14/2024	ND	2.01	100	2.00	1.33	
<b>Ethylbenzene*</b>	<b>11.8</b>	0.500	10/14/2024	ND	2.01	101	2.00	0.760	GC-NC1
<b>Total Xylenes*</b>	<b>144</b>	1.50	10/14/2024	ND	6.00	100	6.00	0.794	
<b>Total BTEX</b>	<b>186</b>	3.00	10/14/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 215 % 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
<b>Chloride</b>	<b>2000</b>	16.0	10/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3380</b>	10.0	10/11/2024	ND	195	97.7	200	3.92	
<b>DRO &gt;C10-C28*</b>	<b>7000</b>	10.0	10/11/2024	ND	191	95.6	200	2.95	
<b>EXT DRO &gt;C28-C36</b>	<b>765</b>	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 240 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: David Mcinnis

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 409-454-3009 Fax #:

Project #: 03C1558519 Project Owner: XTO

Project Name: Corral Canyon 21 CVB

Project Location: 32.125040, -103.981430

Sampler Name: Jesse Dorman

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth  
(feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEx

TPH

CHLORIDE

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Relinquished By:

Relinquished By:

Date:  
Time:

Received By:

Date:  
Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: °C  
Corrected Temp.: °C

Sample Condition  
Cool Intact  
☐ Yes ☒ No

CHECKED BY:  
(Initials)

Turnaround Time: Standard Rush  
Thermometer ID: 5773  
Correction Factor: -0.5°C

Bacteria (only)  
Cool Intact  
☐ Yes ☒ No

REMARKS:

Cost Center: 2243641001 Incident ID: NAPP2424045887

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Email addresses: dmorris@ensolum.com Tkmorrissey@ensolum.com kthomason@ensolum.com

FORM 000 R-3-2 10/07/21

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



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

October 15, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 9:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 01 .5' (H246198-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2024	ND	2.08	104	2.00	2.47	
Toluene*	<0.050	0.050	10/12/2024	ND	2.05	102	2.00	3.56	
Ethylbenzene*	<0.050	0.050	10/12/2024	ND	2.12	106	2.00	4.60	
Total Xylenes*	<0.150	0.150	10/12/2024	ND	6.35	106	6.00	4.81	
Total BTX	<0.300	0.300	10/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 77.5-125

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	10/14/2024	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	10/12/2024	ND	210	105	200	0.588	
DRO >C10-C28*	<10.0	10.0	10/12/2024	ND	194	96.9	200	0.715	
EXT DRO >C28-C36	<10.0	10.0	10/12/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 02 .5' (H246198-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/11/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.78	113	6.00	14.6		
Total BTEx	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/14/2024	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	10/12/2024	ND	210	105	200	0.588	
DRO >C10-C28*	<10.0	10.0	10/12/2024	ND	194	96.9	200	0.715	
EXT DRO >C28-C36	<10.0	10.0	10/12/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 03 .5' (H246198-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/11/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.78	113	6.00	14.6		
Total BTEX	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 04 .5' (H246198-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/11/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.78	113	6.00	14.6		
Total BTEx	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	198	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	72.2	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 05 .5' (H246198-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/11/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.78	113	6.00	14.6		
Total BTEx	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

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	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: SS 06 .5' (H246198-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/11/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/11/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/11/2024	ND	6.78	113	6.00	14.6		
Total BTEx	<0.300	0.300	10/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 77.5-125

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 01B 4' (H246198-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44	
Toluene*	0.365	0.050	10/11/2024	ND	2.13	107	2.00	11.5	GC-NC1
Ethylbenzene*	0.338	0.050	10/11/2024	ND	2.22	111	2.00	13.4	
Total Xylenes*	5.97	0.150	10/11/2024	ND	6.78	113	6.00	14.6	
Total BTEX	6.67	0.300	10/11/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	416	16.0	10/14/2024	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*	150	10.0	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	1790	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	291	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 03A 4' (H246198-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2024	ND	2.07	103	2.00	5.44	
Toluene*	0.831	0.050	10/11/2024	ND	2.13	107	2.00	11.5	GC-NC1
Ethylbenzene*	0.653	0.050	10/11/2024	ND	2.22	111	2.00	13.4	
Total Xylenes*	9.14	0.150	10/11/2024	ND	6.78	113	6.00	14.6	
Total BTEx	10.6	0.300	10/11/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	400	16.0	10/14/2024	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*	331	10.0	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	1890	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	262	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 02 .5' (H246198-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/14/2024	ND	2.07	103	2.00	5.44	GC-NC
Toluene*	3.59	0.100	10/14/2024	ND	2.13	107	2.00	11.5	GC-NC1
Ethylbenzene*	1.88	0.100	10/14/2024	ND	2.22	111	2.00	13.4	
Total Xylenes*	44.2	0.300	10/14/2024	ND	6.78	113	6.00	14.6	
Total BTEX	49.7	0.600	10/14/2024	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/14/2024	ND	432	108	400	3.64	

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*	1060	10.0	10/11/2024	ND	212	106	200	0.905		
DRO >C10-C28*	5130	10.0	10/11/2024	ND	203	101	200	0.990		
EXT DRO >C28-C36	752	10.0	10/11/2024	ND						

Surrogate: 1-Chlorooctane 175 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 02A 4' (H246198-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/14/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	0.200	0.150	10/14/2024	ND	6.78	113	6.00	14.6		
Total BTEX	<0.300	0.300	10/14/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	118	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	18.9	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 02B 5' (H246198-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2024	ND	2.07	103	2.00	5.44		
Toluene*	<0.050	0.050	10/14/2024	ND	2.13	107	2.00	11.5		
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.22	111	2.00	13.4		
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.78	113	6.00	14.6		
Total BTX	<0.300	0.300	10/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	63.8	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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  
DAVID MCINNIS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/11/2024  
Reported: 10/15/2024  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.125040,-103.981430

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

**Sample ID: PH 02C 6' (H246198-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<b>0.133</b>	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<b>0.433</b>	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<b>0.565</b>	0.300	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<b>16.0</b>	16.0	10/14/2024	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*	<b>16.1</b>	10.0	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<b>327</b>	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<b>43.7</b>	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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\*=Accredited Analyte

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### Notes and Definitions

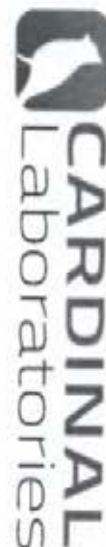
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST									
Project Manager: David McInnis		P.O. #:											
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.											
City: Carlsbad		State: NM Zip: 88220											
Phone #: 409-454-3009		Attn: Colton Brown											
Fax #:		Address: 3104 E. Green St.											
Project #: 03C1558519		City: Carlsbad											
Project Name: Corral Canyon 21 CVB		State: NM Zip: 88220											
Project Location: 32.125040, -103.981430		Phone #:											
Sampler Name: Jesse Dorman		Fax #:											
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING							

Lab I.D.		Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDE
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
H246198		5501	3'		6									10/18/89	1015			
2		5502			4									10/20				
3		5503												10/24				
4		5504												11/08				
5		5505												11/05				
6		5506												11/10				
7		PH01B												10/20				
8		PH03A												10/29				
9		PH02A												12/15				
10		PH02A	1.5'											12/31				

FIELD NOTE: Location and Date(s) and owner's location (ready for any other entry) whether based on contact or test, shall be located to the amount used for the report for the

analysis, the client and the lender, a contract is necessary that clearly specifies precisely for any claim arising without fault in contract or tort, shall be limited to the amount paid by the client for the analysis. All clients, including those for negligence and any other cause without fault in contract or tort, shall be limited to the amount paid by the client for the analysis. In no event shall Capital be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or associates arising out of or related to the performance of services furnished by Capital, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10-11-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 8:05		All Results are emailed. Please provide Email address:	
			Dmochris@ensolum.com TMorrissey@ensolum.com kthomas@ensolum.com	
Relinquished By:	Date: 10-11-24	Received By:	REMARKS:	
	Time: 8:42		Cost Center: 2243641001 Incident ID: NAPP2424045887	
Delivered By: (Circle One)	Observed Temp. °C: 1.3	Sample Condition	Turnaround Time:	Standard
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.7	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Rush	<input checked="" type="checkbox"/>
		Yes <input type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: #40-010	48hr
		Yes <input type="checkbox"/> No <input type="checkbox"/>	Correction Factor: 0.0	
		CHECKED BY: SJC	Bacteria (only)	Sample Condition
			Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
			Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum LLC	<b>BILL TO</b>									
Project Manager: David McInnis	P.O. #:									
Address: 3122 National Parks Hwy	Company: XTO Energy Inc.									
City: Carlsbad	State: NM	Zip: 88220	Attn: Colton Brown							
Phone #: 409-454-3009	Fax #:		Address: 3104 E. Green St.							
Project #: 03C1558519	Project Owner: XTO		City: Carlsbad							
Project Name: Corral Canyon 21 CVB	State: NM	Zip: 88220								
Project Location: 32.125040, -103.981430	Phone #:									
Sampler Name: Jesse Dorman	Fax #:									

[illegible]

**EXCLUDED NOTES:** Locality and Other, Contractual liability and certain customer remedy. Any debt arising whether made in contract or not, shall be excluded to the extent paid for by the creditor for the analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. No event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, divisions or other subsidiaries of a subsidiary of the client.

Relinquished By: <i>[Signature]</i>		Date: 10-1-24		Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Time: 805						All Results are emailed. Please provide Email address:	
Relinquished By:		Date: 10-1-24		Received By:		Dmcrista@gensulum.com Thmorrissey@gensulum.com	
Time: 0942						Kthomason@gensulum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Overcool Temp. °C: 1.3 Corrected Temp.: 0.7		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>	
		Turnaround Time: #140-0.00		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Correction Factor: 0.5°C		45hr		Corrected Temp. °C	
		REMARKS:		Cost Center: 224364-1001 Incident ID: NAAP2424045887			

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

QUESTIONS

Action 406544

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406544
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2424045887
Incident Name	NAPP2424045887 CORRAL CANYON 21 CVB @ 0
Incident Type	Oil Release
Incident Status	Remediation Plan Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	CORRAL CANYON 21 CVB
Date Release Discovered	08/26/2024
Surface Owner	State

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: Equipment Failure   Other (Specify)   Crude Oil   Released: 83 BBL   Recovered: 80 BBL   Lost: 3 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)	3 way divert valve Handel on LACT suction broke

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QUESTIONS, Page 2

Action 406544

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406544
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/26/2024
--	--

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QUESTIONS, Page 3

Action 406544

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406544
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	11145
GRO+DRO (EPA SW-846 Method 8015M)	10380
BTEX (EPA SW-846 Method 8021B or 8260B)	186
Benzene (EPA SW-846 Method 8021B or 8260B)	1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	10/09/2024
On what date will (or did) the final sampling or liner inspection occur	02/23/2025
On what date will (or was) the remediation complete(d)	02/23/2025
What is the estimated surface area (in square feet) that will be reclaimed	3245
What is the estimated volume (in cubic yards) that will be reclaimed	480
What is the estimated surface area (in square feet) that will be remediated	3245
What is the estimated volume (in cubic yards) that will be remediated	480
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 406544

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406544
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/26/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 406544

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406544
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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



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General Information  
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Santa Fe, NM 87505

QUESTIONS, Page 6

Action 406544

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406544
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	389461
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/10/2024
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	4400

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

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

CONDITIONS

Action 406544

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  406544
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Ensure vertical delineation is achieved of PH01 and PH03. Submit remediation closure report to the OCD by 3/3/2025.	12/2/2024



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 &amp; nAPP2424045887



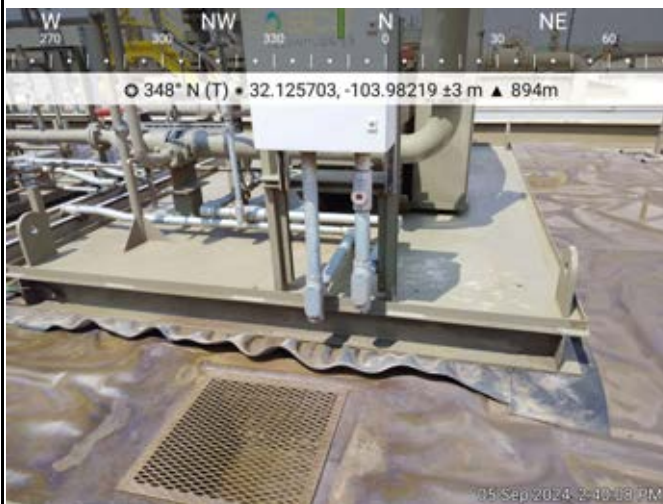
Photograph: 1  
Description: Liner Inspection  
View: Southwest

Date: 09/05/2024



Photograph: 2  
Description: Liner Inspection  
View: Southeast

Date: 09/05/2024



Photograph: 3  
Description: Liner Inspection  
View: Northwest

Date: 09/05/2024



Photograph: 4  
Description: Liner Inspection  
View: Northwest

Date: 09/05/2024

**Photographic Log**

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 &amp; nAPP2424045887



Photograph: 5                      Date: 2/12/2025  
Description: Excavation activities  
View: West - FS05, FS03, SW04, SW03, PH01



Photograph: 6                      Date: 2/14/2025  
Description: Excavation activities  
View: West - FS02, SW03, SW04



Photograph: 7                      Date: 2/14/2025  
Description: Excavation activities  
View: Southwest - SW04, SW03, FS01



Photograph: 8                      Date: 2/14/2025  
Description: Excavation activities  
View: East - FS05, FS06, PH03, SW01



**Photographic Log**

XTO Energy, Inc.

Corral Canyon 21 CVB

nAPP2417336593 &amp; nAPP2424045887



Photograph 9

Date: 7/16/2025

Description: Delineation of Deferral Area - SS14 - SS28; near SS25



Photograph 10

Date: 7/16/2025

Description: Delineation of Deferral Area near SS18


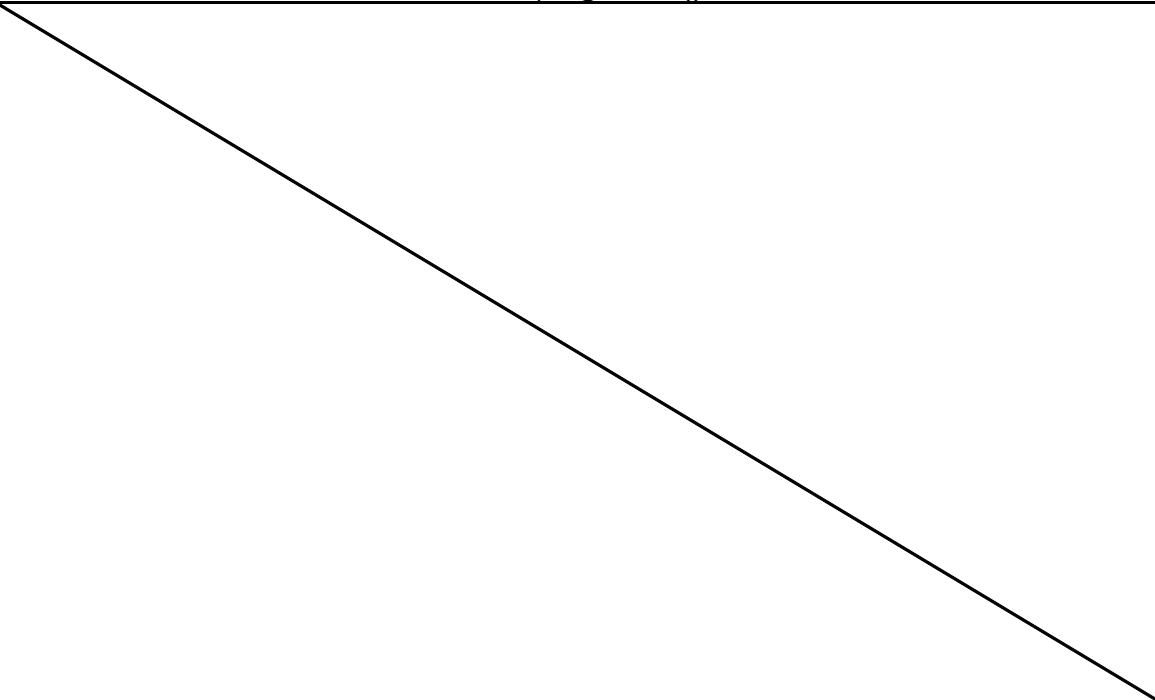



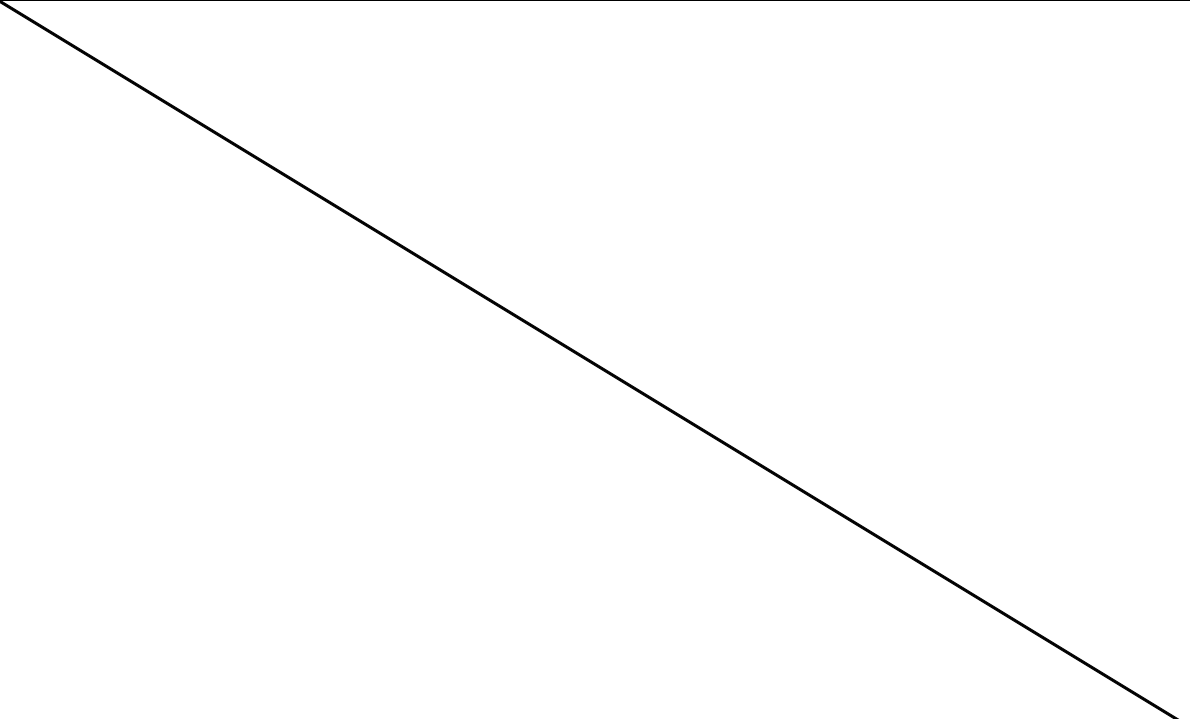


## APPENDIX C

### Lithologic / Soil Sampling Log

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								Sample Name: PH01		Date: 1/24/2025	
								Site Name: Corral Canyon 21 CVB			
								Incident Number: nAPP2424045887			
								Job Number: 03C1558519			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: JD		Method: mini excavator	
Coordinates: 32.125664, -103.982236								Hole Diameter: 1.5'		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded			
D	<168	68.4	Y	PH01	0.5						
D	-	160	N	PH01	1	1					
D	-	124	N		2	2					
D	-	105	N	PH01A	3	3					
D	459	339	N	PH01B	4	4					
D	1,137	522	N		5	5					
D	538	238	N		6	6					
D	426	132	N	PH01C	7	7					
Total Depth @ 7 feet bgs											
											

								Sample Name: PH03		Date: 1/24/2025	
								Site Name: Corral Canyon 21 CVB			
								Incident Number: nAPP2424045887			
								Job Number: 03C1558519			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: JD		Method: mini excavator	
Coordinates: 32.125664, -103.982236								Hole Diameter: 1.5'		Total Depth: 6'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded			
D	-	1,758	N	PH03	1	1					
D	1,848	1,703	N		2	2					
D	1,388	1,668	N		3	3					
D	515	1,600	N	PH03A	4	4					
D	-	1,446	N		5	5					
D	-	331.6	N	PH03B	6	6					
Total Depth @ 6 feet bgs											
											



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

---

January 27, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 01/24/25 15:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 01/24/2025  
Reported: 01/27/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519, 03C1558439  
Project Location: XTO 32.125683,-103.982211

Sampling Date: 01/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01 C 7 (H250450-01)**

BTX 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	01/24/2025	ND	2.22	111	2.00	4.64	
<b>Toluene*</b>	<b>0.062</b>	0.050	01/24/2025	ND	2.19	109	2.00	7.29	
<b>Ethylbenzene*</b>	<b>0.097</b>	0.050	01/24/2025	ND	2.20	110	2.00	6.96	
<b>Total Xylenes*</b>	<b>1.78</b>	0.150	01/24/2025	ND	6.58	110	6.00	6.64	
<b>Total BTX</b>	<b>1.93</b>	0.300	01/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>272</b>	16.0	01/27/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>75.7</b>	10.0	01/25/2025	ND	206	103	200	1.30	
<b>DRO &gt;C10-C28*</b>	<b>840</b>	10.0	01/25/2025	ND	205	102	200	1.83	
<b>EXT DRO &gt;C28-C36</b>	<b>115</b>	10.0	01/25/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 01/24/2025  
Reported: 01/27/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519, 03C1558439  
Project Location: XTO 32.125683,-103.982211

Sampling Date: 01/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 03 B 6 (H250450-02)**

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	01/24/2025	ND	2.06	103	2.00	2.94	
Toluene*	<b>0.351</b>	0.050	01/24/2025	ND	2.13	106	2.00	3.43	
Ethylbenzene*	<b>0.215</b>	0.050	01/24/2025	ND	2.15	108	2.00	3.65	
Total Xylenes*	<b>4.15</b>	0.150	01/24/2025	ND	6.50	108	6.00	3.23	
Total BTEX	<b>4.72</b>	0.300	01/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>192</b>	16.0	01/27/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>119</b>	10.0	01/25/2025	ND	206	103	200	1.30	
DRO >C10-C28*	<b>620</b>	10.0	01/25/2025	ND	205	102	200	1.83	
EXT DRO >C28-C36	<b>81.7</b>	10.0	01/25/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



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

February 17, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 02/14/25 14:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	02/14/2025	Sampling Date:	02/14/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558519	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.1253492,-103.9815355		

**Sample ID: FS01 3' (H250911-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.4	2.00	0.182		
Toluene*	<0.050	0.050	02/14/2025	ND	2.16	108	2.00	1.33		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.25	112	2.00	1.78		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	02/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	187	93.4	200	1.66	
DRO >C10-C28*	191	10.0	02/14/2025	ND	190	95.2	200	1.78	
EXT DRO >C28-C36	15.8	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 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  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS02 4' (H250911-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.4	2.00	0.182		
Toluene*	<0.050	0.050	02/14/2025	ND	2.16	108	2.00	1.33		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.25	112	2.00	1.78		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	6.61	110	6.00	1.43		
Total BTEX	<0.300	0.300	02/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	187	93.4	200	1.66	
DRO >C10-C28*	14.5	10.0	02/14/2025	ND	190	95.2	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS03 4' (H250911-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.4	2.00	0.182	
Toluene*	<0.050	0.050	02/14/2025	ND	2.16	108	2.00	1.33	
Ethylbenzene*	0.212	0.050	02/14/2025	ND	2.25	112	2.00	1.78	GC-NC1
Total Xylenes*	0.521	0.150	02/14/2025	ND	6.61	110	6.00	1.43	GC-NC1
Total BTEX	0.733	0.300	02/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	352	16.0	02/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.3	10.0	02/14/2025	ND	187	93.4	200	1.66	
DRO >C10-C28*	641	10.0	02/14/2025	ND	190	95.2	200	1.78	
EXT DRO >C28-C36	76.6	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS04 4' (H250911-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.4	2.00	0.182		
Toluene*	<0.050	0.050	02/14/2025	ND	2.16	108	2.00	1.33		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.25	112	2.00	1.78		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	02/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	187	93.4	200	1.66	
DRO >C10-C28*	131	10.0	02/14/2025	ND	190	95.2	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS05 2' (H250911-05)**

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	02/14/2025	ND	1.97	98.4	2.00	0.182	
<b>Toluene*</b>	<b>1.32</b>	0.050	02/14/2025	ND	2.16	108	2.00	1.33	GC-NC1
<b>Ethylbenzene*</b>	<b>3.79</b>	0.050	02/14/2025	ND	2.25	112	2.00	1.78	GC-NC1
<b>Total Xylenes*</b>	<b>17.6</b>	0.150	02/14/2025	ND	6.61	110	6.00	1.43	GC-NC1
<b>Total BTEx</b>	<b>22.7</b>	0.300	02/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 173 % 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
<b>Chloride</b>	<b>896</b>	16.0	02/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>394</b>	10.0	02/14/2025	ND	187	93.4	200	1.66	
<b>DRO &gt;C10-C28*</b>	<b>2630</b>	10.0	02/14/2025	ND	190	95.2	200	1.78	
<b>EXT DRO &gt;C28-C36</b>	<b>310</b>	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS06 2' (H250911-06)**

BTX 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	02/14/2025	ND	1.97	98.4	2.00	0.182	
<b>Toluene*</b>	<b>1.78</b>	0.050	02/14/2025	ND	2.16	108	2.00	1.33	GC-NC1
<b>Ethylbenzene*</b>	<b>3.96</b>	0.050	02/14/2025	ND	2.25	112	2.00	1.78	GC-NC1
<b>Total Xylenes*</b>	<b>22.1</b>	0.150	02/14/2025	ND	6.61	110	6.00	1.43	GC-NC1
<b>Total BTX</b>	<b>27.8</b>	0.300	02/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 177 % 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
<b>Chloride</b>	<b>1470</b>	16.0	02/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>431</b>	10.0	02/14/2025	ND	187	93.4	200	1.66	
<b>DRO &gt;C10-C28*</b>	<b>2910</b>	10.0	02/14/2025	ND	190	95.2	200	1.78	
<b>EXT DRO &gt;C28-C36</b>	<b>373</b>	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/14/2025  
Reported: 02/17/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 02/14/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SW01 0-2' (H250911-07)**

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	02/14/2025	ND	1.97	98.4	2.00	0.182	GC-NC
Toluene*	2.38	0.050	02/14/2025	ND	2.16	108	2.00	1.33	GC-NC1
Ethylbenzene*	4.96	0.050	02/14/2025	ND	2.25	112	2.00	1.78	GC-NC1
Total Xylenes*	25.3	0.150	02/14/2025	ND	6.61	110	6.00	1.43	GC-NC1
Total BTEX	32.6	0.300	02/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 175 % 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	1100	16.0	02/17/2025	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	470	10.0	02/14/2025	ND	187	93.4	200	1.66	
DRO >C10-C28*	2610	10.0	02/14/2025	ND	190	95.2	200	1.78	
EXT DRO >C28-C36	316	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### 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.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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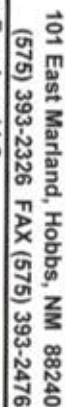
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

March 14, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 03/13/25 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 03/13/2025  
Reported: 03/14/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 03/12/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 02 0-4 (H251494-01)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/14/2025	ND	2.26	113	2.00	4.63	GC-NC
<b>Toluene*</b>	<b>14.5</b>	0.500	03/14/2025	ND	2.24	112	2.00	4.27	
<b>Ethylbenzene*</b>	<b>8.58</b>	0.500	03/14/2025	ND	2.14	107	2.00	4.61	GC-NC1
<b>Total Xylenes*</b>	<b>129</b>	1.50	03/14/2025	ND	6.28	105	6.00	4.55	GC-NC1
<b>Total BTX</b>	<b>152</b>	3.00	03/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 191 % 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
<b>Chloride</b>	<b>1330</b>	16.0	03/14/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3620</b>	50.0	03/14/2025	ND	213	107	200	2.96	
<b>DRO &gt;C10-C28*</b>	<b>15400</b>	50.0	03/14/2025	ND	193	96.6	200	1.12	
<b>EXT DRO &gt;C28-C36</b>	<b>2240</b>	50.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 213 % 44.4-145

Surrogate: 1-Chlorooctadecane 284 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 03/13/2025  
Reported: 03/14/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 03/12/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 03 0-4 (H251494-02)**

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	03/14/2025	ND	2.26	113	2.00	4.63	
Toluene*	<b>2.60</b>	0.200	03/14/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	<b>2.35</b>	0.200	03/14/2025	ND	2.14	107	2.00	4.61	GC-NC1
Total Xylenes*	<b>40.9</b>	0.600	03/14/2025	ND	6.28	105	6.00	4.55	GC-NC1
Total BTEX	<b>45.9</b>	1.20	03/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 183 % 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	<b>416</b>	16.0	03/14/2025	ND	432	108	400	3.77	

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*	<b>1140</b>	10.0	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<b>4760</b>	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<b>672</b>	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 163 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 03/13/2025  
Reported: 03/14/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 03/12/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 04 0-4 (H251494-03)**

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	03/14/2025	ND	2.26	113	2.00	4.63	
Toluene*	7.18	0.200	03/14/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	4.84	0.200	03/14/2025	ND	2.14	107	2.00	4.61	GC-NC1
Total Xylenes*	93.3	0.600	03/14/2025	ND	6.28	105	6.00	4.55	GC-NC1
Total BTEX	105	1.20	03/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 242 % 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	1300	16.0	03/14/2025	ND	432	108	400	3.77	

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*	2560	10.0	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	8650	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	1170	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 236 % 44.4-145

Surrogate: 1-Chlorooctadecane 134 % 40.6-153

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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  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 03/13/2025  
Reported: 03/14/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558519  
Project Location: XTO 32.1253492,-103.9815355

Sampling Date: 03/12/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 05 0-4 (H251494-04)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.26	113	2.00	4.63	
Toluene*	0.074	0.050	03/14/2025	ND	2.24	112	2.00	4.27	
Ethylbenzene*	0.199	0.050	03/14/2025	ND	2.14	107	2.00	4.61	GC-NC1
Total Xylenes*	2.73	0.150	03/14/2025	ND	6.28	105	6.00	4.55	GC-NC1
Total BTX	3.00	0.300	03/14/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 155 % 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	288	16.0	03/14/2025	ND	432	108	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*	109	10.0	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	3460	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	669	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "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

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 432-296-0627

Fax #:

Project #: 03C1558519

Project Owner:

Project Name: Corral Canyon 21 CVB

Project Location: 32.1253492 -103.9815355

Sampler Name: Mario Sarkis

BILL TO

P.O. #:

Company: XTO

Attn: Cotton Brown

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			BTEX	TPH	Chlorides		
H251494	SW02	0-4	C	1						31/07/25	0926					
	SW03	0-4	C	1							1058					
	SW04	0-4	C	1							1034					
	SW05	0-4	C	1							1007					
MPS																

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Relinquished By:

Time: 3:13:25

Received By:

Signature

Relinquished By:

Time: 1:305

Received By:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

Cool Intact

CHECKED BY: (Initials)

Signature

Turnaround Time: Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

0.4

No

No

Signature

Thermometer ID: #140

Correction Factor: 0.3

No

No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to cely.keen@cardinallabsnm.com



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

July 21, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CORRAL CANYON 21 CVB

Enclosed are the results of analyses for samples received by the laboratory on 07/17/25 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 21 CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558643	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.1253492, -103.9815355		

**Sample ID: SS 14 .5' (H254288-01)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.5 % 40.6-153

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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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 15 .5' (H254288-02)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 16 .5' (H254288-03)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 17 .5' (H254288-04)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 18 .5' (H254288-05)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
JEREMY REICH  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 07/17/2025  
Reported: 07/21/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558643  
Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 19 .5' (H254288-06)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 60.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 54.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 20 .5' (H254288-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
JEREMY REICH  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 07/17/2025  
Reported: 07/21/2025  
Project Name: CORRAL CANYON 21 CVB  
Project Number: 03C1558643  
Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 21 .5' (H254288-08)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEx	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	47.7	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 22 .5' (H254288-09)**

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	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/18/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 23 .5' (H254288-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEX	<0.300	0.300	07/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	17.7	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 24 .5' (H254288-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEx	<0.300	0.300	07/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 61.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 55.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 25 .5' (H254288-12)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTX	<0.300	0.300	07/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 68.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 26 .5' (H254288-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72		
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23		
Total BTEx	<0.300	0.300	07/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 54.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 49.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 27 .5' (H254288-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.91	95.7	2.00	1.80		
Toluene*	<0.050	0.050	07/18/2025	ND	2.01	101	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	2.00	99.9	2.00	1.47		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.87	97.8	6.00	1.53		
Total BTEX	<0.300	0.300	07/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 69.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.3 % 40.6-153

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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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 07/17/2025  
 Reported: 07/21/2025  
 Project Name: CORRAL CANYON 21 CVB  
 Project Number: 03C1558643  
 Project Location: XTO 32.1253492, -103.9815355

Sampling Date: 07/16/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 28 .5' (H254288-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2025	ND	1.91	95.7	2.00	1.80		
Toluene*	<0.050	0.050	07/18/2025	ND	2.01	101	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	2.00	99.9	2.00	1.47		
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.87	97.8	6.00	1.53		
Total BTEX	<0.300	0.300	07/18/2025	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	32.0	16.0	07/18/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2025	ND	209	104	200	0.836	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	201	101	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.8 % 40.6-153

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---

### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:								
Project Manager: Jeremy Reich		Company: XTO Energy, Inc								
Address: 601 N Marlenfeld Street, Suite 400		Attn: Dale Woodall								
City: Midland		Address: 3104 E Greene St								
Phone #: 575-937-3906		City: Carlsbad								
Fax #: 575-937-3906		State: NM Zip: 88220								
Project #: 03C1558643		Project Owner: XTO Energy								
Project Name: Corral Canyon 21 CVB		Spill								
Project Location: 32, 1253492, -103.9815355		Phone #:								
Sample Name: Jesse Dorman		Fax #:								
FOR LAB USE ONLY		PRESERV		SAMPLING						
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
4251888	5514	5'	64	1	GROUNDWATER	7/16/25	9:05			
	5515				WASTEWATER		9:10			
	5516				SOIL		9:15			
	5517				OIL		9:50			
	5518				SLUDGE		9:55			
	5519				OTHER:		10:00			
	5520				ACID/BASE:		10:05			
	5521				ICE / COOL		10:20			
	5522				OTHER:		10:35			
	5523									
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Relinquished By:		Date: 7/16/25	Received By:		Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					
Relinquished By:		Date:	Received By:		All Results are emailed. Please provide Email address: JReich@ensolum.com					
Relinquished By:		Date:	Received By:		BBeall@ensolum.com, TMorrissey@ensolum.com, Jdorman@ensolum.com					
Relinquished By:		Date:	Received By:		TThillard@ensolum.com, KThomason@ensolum.com					
Relinquished By:		Date:	Received By:		REMARKS: Incident Number: NAPP2424045887 & NAPP2417336593					
Relinquished By:		Date:	Received By:		Cost Center: 2243641001					
Relinquished By:		Date:	Received By:		GFCM: 48605000					
Relinquished By:		Date:	Received By:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>					
Relinquished By:		Date:	Received By:		Bacteria (only) Sample Condition					
Relinquished By:		Date:	Received By:		Cool Intact <input type="checkbox"/> Observed Temp. °C					
Relinquished By:		Date:	Received By:		Corrected Temp. °C					
Relinquished By:		Date:	Received By:		Thermometer ID #1157445986					
Relinquished By:		Date:	Received By:		Correction Factor: 0.003					
Relinquished By:		Date:	Received By:		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C					
Relinquished By:		Date:	Received By:		No <input type="checkbox"/>					

FORM 006 R 3 2 10/07/21

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



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

QUESTIONS

Action 495312

**QUESTIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  495312
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2424045887
Incident Name	NAPP2424045887 CORRAL CANYON 21 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	CORRAL CANYON 21 CVB
Date Release Discovered	08/26/2024
Surface Owner	State

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: Equipment Failure   Other (Specify)   Crude Oil   Released: 83 BBL   Recovered: 80 BBL   Lost: 3 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)	3 way divert valve Handel on LACT suction broke

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QUESTIONS, Page 2

Action 495312

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 495312
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/26/2024
--	--

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QUESTIONS, Page 3

Action 495312

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 495312
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1470
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	21260
GRO+DRO (EPA SW-846 Method 8015M)	19020
BTEX (EPA SW-846 Method 8021B or 8260B)	152
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	10/09/2024
On what date will (or did) the final sampling or liner inspection occur	03/12/2025
On what date will (or was) the remediation complete(d)	03/12/2025
What is the estimated surface area (in square feet) that will be reclaimed	3245
What is the estimated volume (in cubic yards) that will be reclaimed	480
What is the estimated surface area (in square feet) that will be remediated	3245
What is the estimated volume (in cubic yards) that will be remediated	480
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 4

Action 495312

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  495312
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 08/12/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 495312

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  495312
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Surface pipelines, pipeline support beams, pipeline risers, buried electrical lines, surface electrical lines interfere with remediation activities. Removing such equipment could undermine the equipment stability and potentially cause an additional release and/or harm to onsite personnel.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4950
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	BIG EDDY UNIT DI 4 [fAPP2123044252]
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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 08/12/2025

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 495312

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 495312
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	483134
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/16/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

**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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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 495312

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  495312
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of PH03A, FS05, FS06, SW01, SW02, SW03, SW04, and SW05 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	8/15/2025