



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).

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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

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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.

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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.

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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:

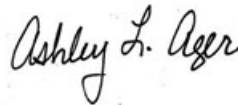
- Excavation of impacted soil to a maximum depth of 4 feet bgs. Excavation will proceed laterally, where possible, until sidewall samples confirm all COC concentrations are compliant with the strictest Table I Closure Criteria. The excavation will occur near active production equipment and surface piping, 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

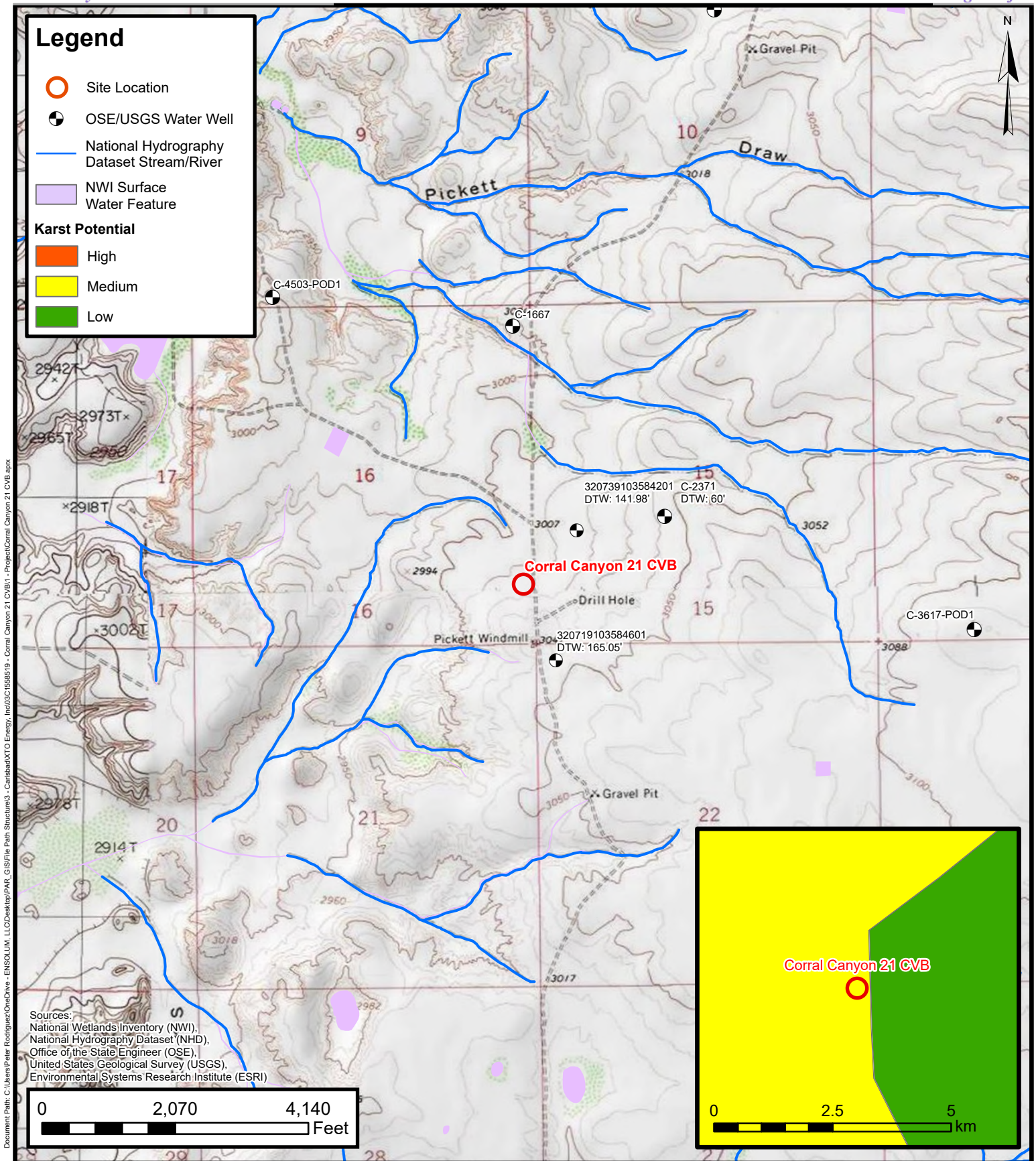
Appendices:

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



Site Receptor Map



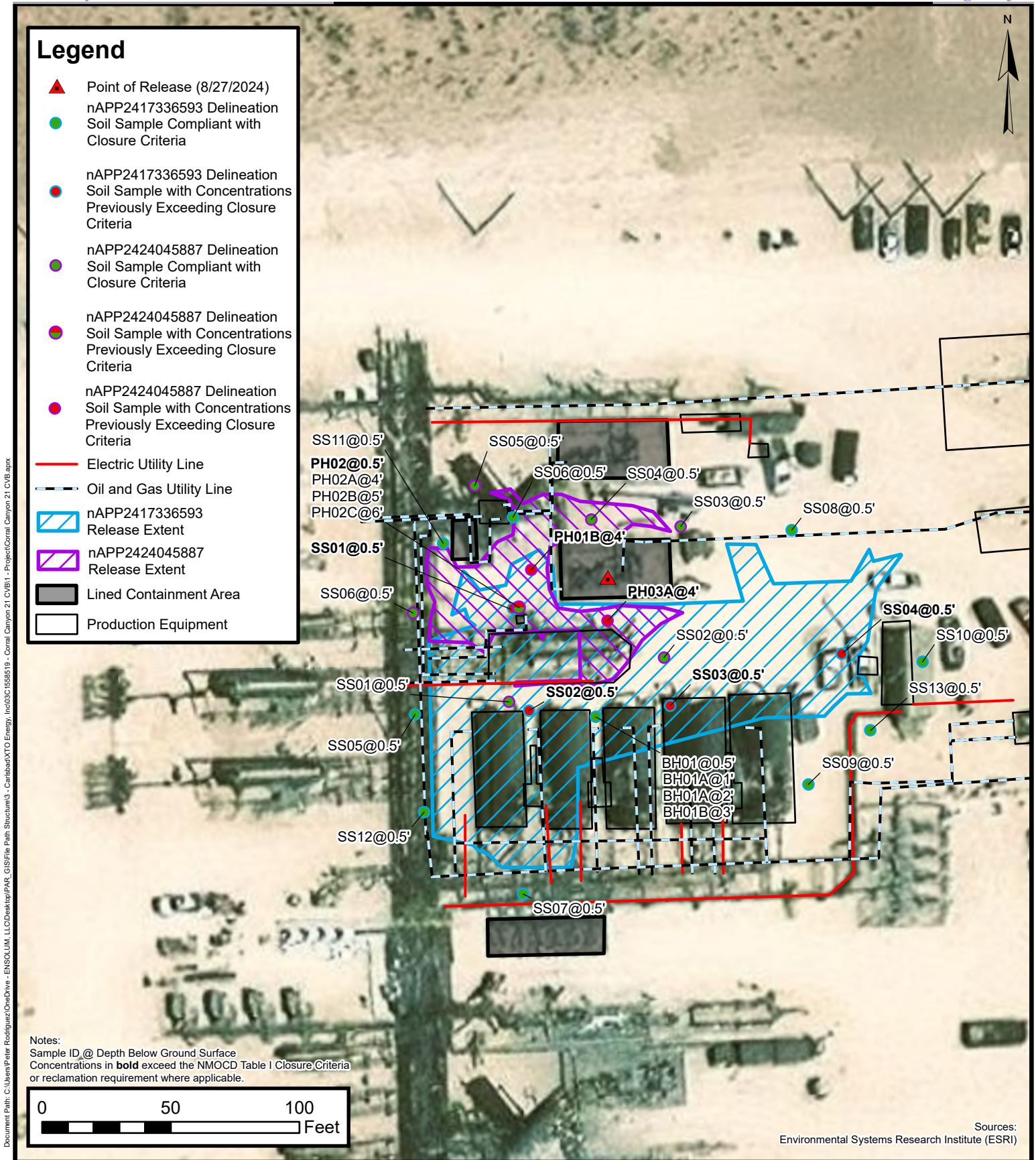
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Unit P, Sec 16, T 25S, R 29E
 Eddy County, New Mexico

FIGURE

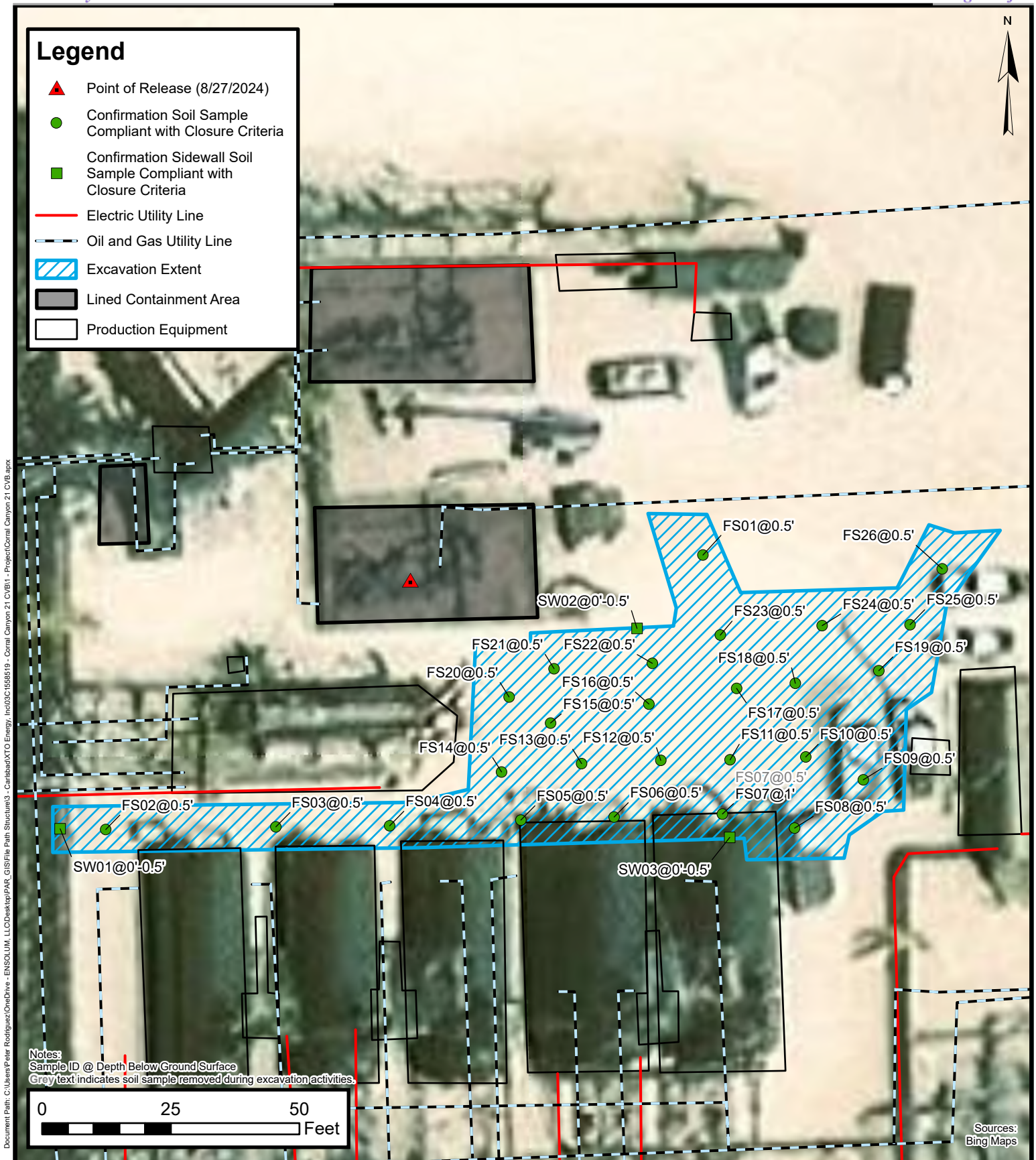
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Delineation Sample Locations

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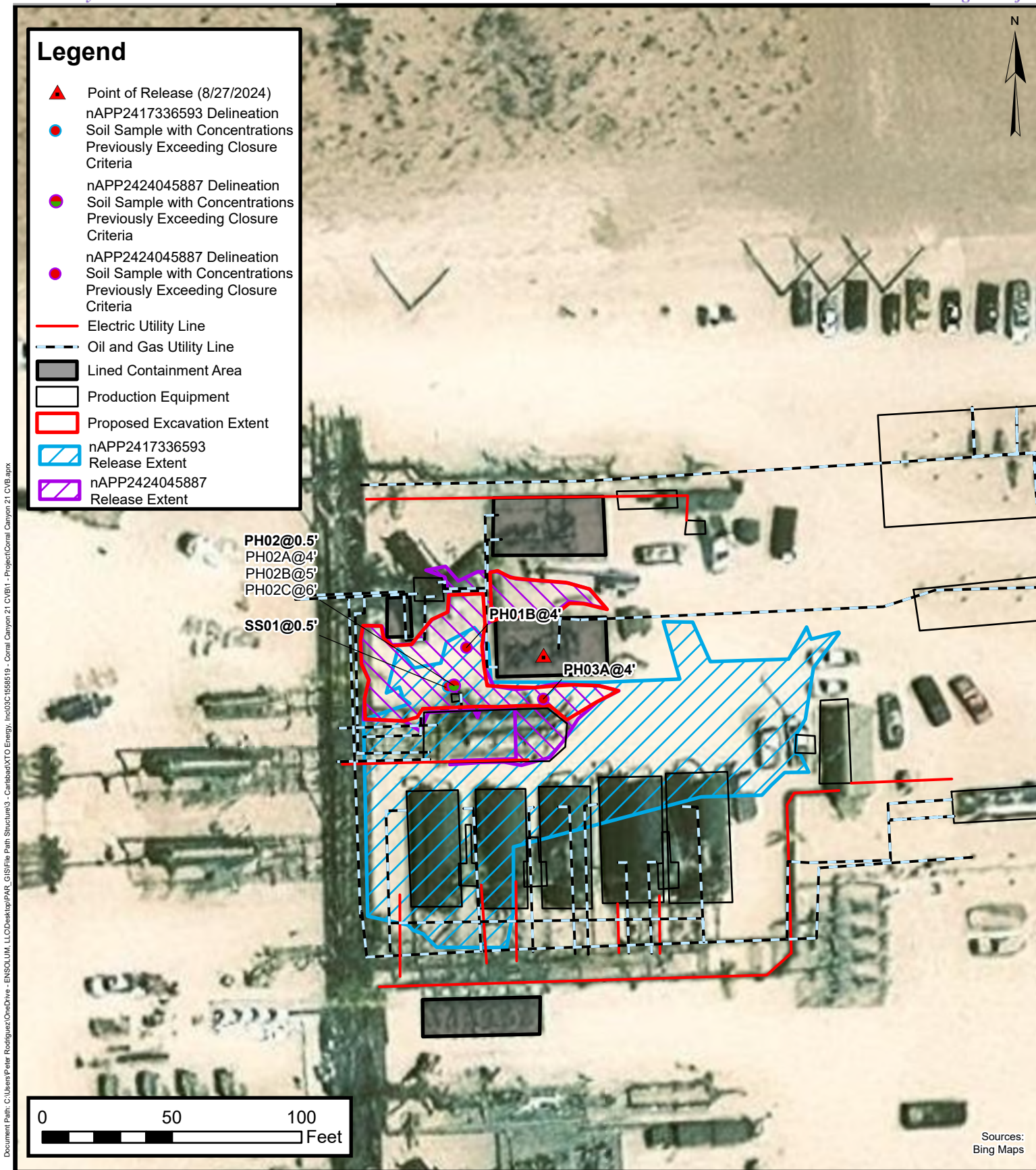
FIGURE
2



Excavation Sample Locations

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FIGURE
3



Proposed Excavation Extent

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Unit P, Sec 16, T 25S, R 29E
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FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS - INCIDENT NUMBER nAPP2417336593
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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	3,038	3,389	560
PH01B	10/10/2024	4	<0.050	6.67	150	1,790	291	1,940	2,231	416
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	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	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

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

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

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.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[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



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



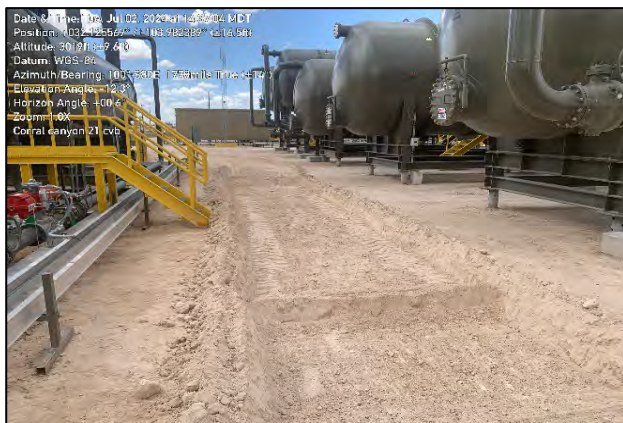
Photograph: 4 Date: 7/2/2024
Description: Excavation activities
View: Southwest

**Photographic Log**

XTO Energy, Inc

Corral Canyon 21 CVB

nAPP2417336593 & nAPP2424045887



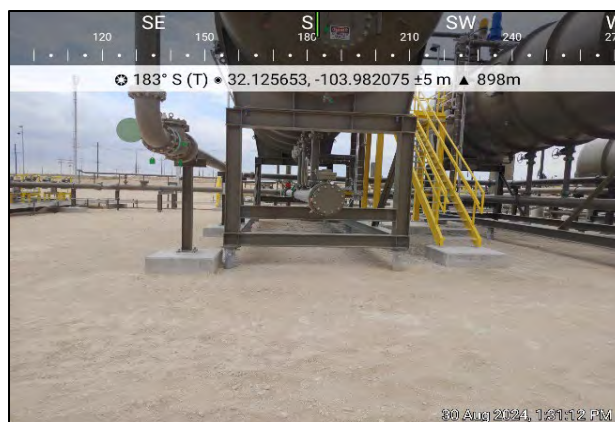
Photograph: 5 Date: 7/2/2024
Description: Excavation activities
View: Southeast



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 & 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

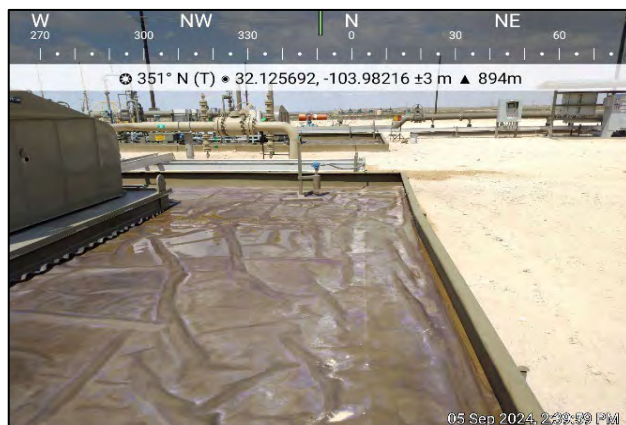


Photographic Log

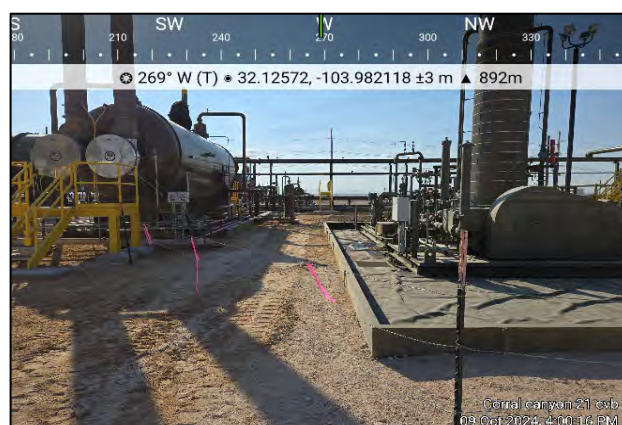
XTO Energy, Inc

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


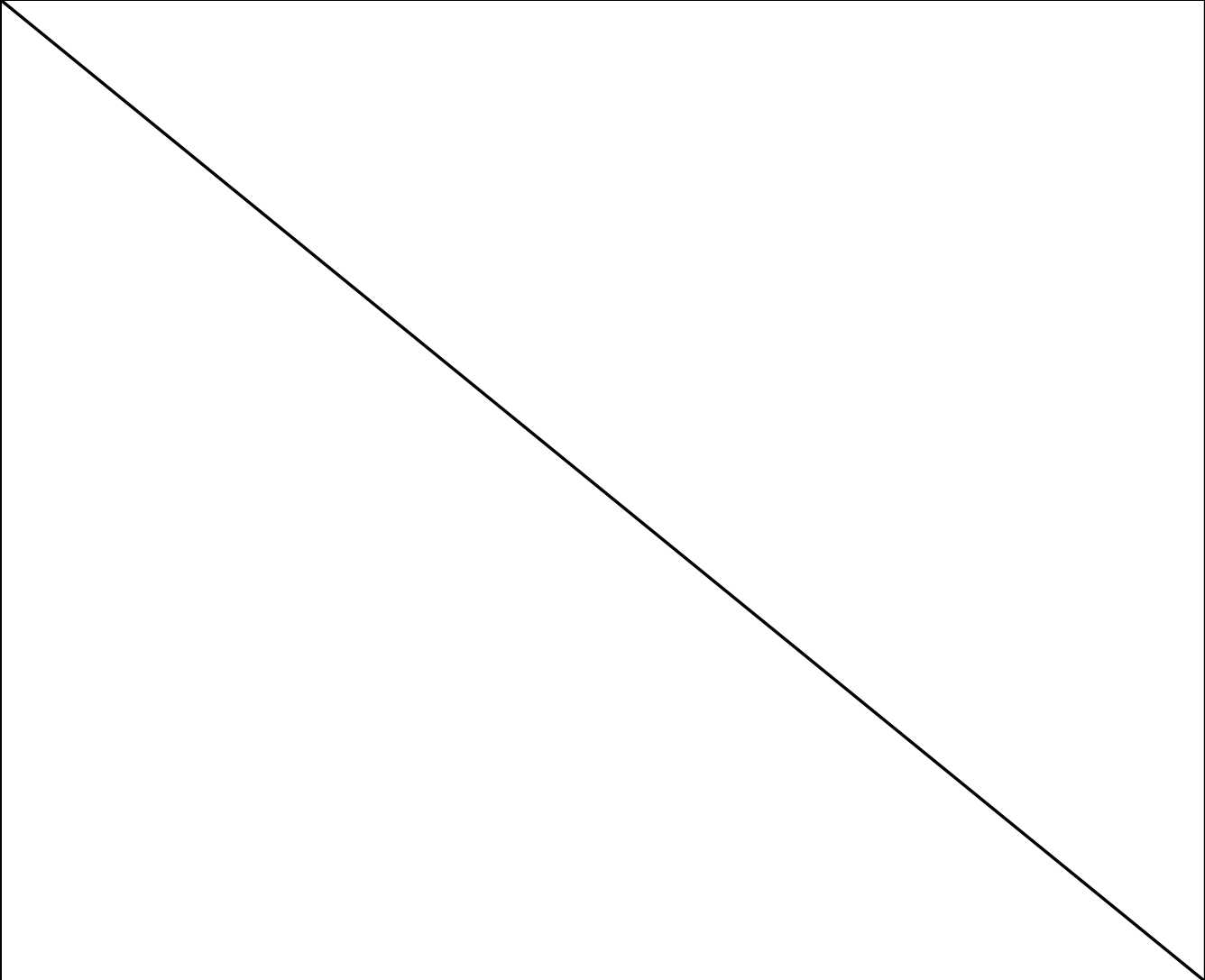



Photograph: 16 Date: 10/10/2024
Description: Delineation activities
View: North





APPENDIX C

Lithologic Soil Sampling Logs

		Sample Name: BH01		Date: 8/30/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2417336593						
		Job Number: 03C1558439						
LITHOLOGIC / SOIL SAMPLING LOG				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
D	832	4.5	N	BH01	0.5	0	CCHE	(0-1') CALICHE, light brown, fine grained
D	328	0.1	N	BH01A	1	1		
Total Depth @ 1-foot bgs								
								

 ENSOLUM		Sample Name: PH01		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: JD		Method: Hand Auger/Core Drill		
Coordinates: 32.125717, -103.982331				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
D	<168	68.4	Y	PH01	0.5	0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded
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								

 ENSOLUM		Sample Name: PH02		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
LITHOLOGIC / SOIL SAMPLING LOG								
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								

 ENSOLUM		Sample Name: PH03		Date: 10/9/2024				
		Site Name: Corral Canyon 21 CVB						
		Incident Number: nAPP2424045887						
		Job Number: 03C1558519						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: JD		Method: Hand Auger/Core Drill		
Coordinates: 32.125664, -103.982236				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
D	-	1,758	N	PH03	1	0	CCHE	(0-4') CALICHE, tan, with silt, poorly graded
D	1,848	1,703	N		2	1		
D	1,388	1,668	N		3	2		
D	515	1,600	N	PH03	4	3		
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.

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 letters of the first and last names being capitalized and prominent.

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

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: 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, SM4500Cl-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	
Chloride	6000	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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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	
Chloride	2640	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, 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	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



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 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, 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	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



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 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	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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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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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.
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										BILL TO										ANALYSIS REQUEST									
Project Manager: David McInnis										P.O. #:																			
Address: 3122 National Parks Hwy										Company: XTO Energy Inc.																			
City: Carlsbad										Attn: Amy Ruth																			
State: NM Zip: 88220										Address: 3104 E Green St																			
Phone #: 409 454 3009										City: Carlsbad																			
Fax #:										State: NM Zip: 88220																			
Project #: 03C1558439										Project Owner: XTO																			
Project Name: Corral Canyon 21 CVB										Phone #:																			
Project Location: 32.12544, 103.98241										Fax #:																			
Sample Name: Joshua Boxley										PRESERV										SAMPLING									
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.										Depth (feet)									
H243642										5501										0.5'									
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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.

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 letters of the first and last names being capitalized and prominent.

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)

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	07/11/2024	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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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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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, 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*	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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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 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, SM4500Cl-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



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 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, SM4500Cl-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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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 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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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 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, SM4500Cl-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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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 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, 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*	<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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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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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, 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	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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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, 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	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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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, 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	07/10/2024	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, 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*	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 dmclinnis@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			
Fax #:		State: NM Zip: 88220			
Project #: 03C15584391		Phone #:			
Project Name: Corral Canyon 21 CVB Heater Treater Dump Line		Fax #:			
Project Location:		SAMPLING			
Sampler 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					
F502					
F503					
F504					
F505					
F506					
F507					
F508					
F509					
F510					
O.5'					
C 1					
7-3-24					
1115					
1120					
1125					
1130					
1135					
1140					
1145					
1150					
1155					
1200					
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Relinquished By: <i>ETW</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:			
Date: 7-9-24		All Results are emailed. Please provide Email address:			
Time: 1:55		bdeill@ensolum.com, TMorrissey@ensolum.com, dmclinnis@ensolum.com			
Date: 7-9-24		REMARKS:			
Time: 1:55		Cost Center: 2243641001			
Date: 7-9-24		Incident ID: NAPP2417336593			
Time: 1:55		Turnaround Time: <i>AD 7-9-24</i> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Date: 7-9-24		Thermometer ID: <i>AD 7-9-24</i>			
Time: 1:55		Correction Factor: <i>AD 7-9-24</i>			
Date: 7-9-24		Bacteria (only) Sample Condition			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			
Time: 1:55		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C			
Date: 7-9-24		Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC						P.O. #:							
Project Manager: David McInnis dmcinnis@ensolum.com						Company: XTO Energy Inc.							
Address: 3122 National Parks Hwy						Attn: Amy Ruth							
City: Carlsbad State: NM Zip: 88220						Address: 3104 E. Green St.							
Phone #: 337 257-8307 Fax #:						City: Carlsbad							
Project #: 03C15584391 Project Owner: XTO						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)		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING	
H244067	F311	Q.S	C	1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL ✓	OTHER :
11	F312												
12	F313												
13	F314												
14	F315												
15	F316												
16	F317												
17	F318												
18	F319												
19	F320												
20	F320												

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Relinquished By: _____ Date: 4-9-24 Type: 1357 Received By: [Signature] Time: _____

Delivered By: (Circle One) Observed Temp.: °C Corrected Temp.: °C Sample Condition Cool Intact Yes No Checked BY: (Initials) AD Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp.: °C

Relinquished By: _____ Date: _____ Type: _____ Received By: [Signature] Time: _____

Remarks: Cost Center: 2243641001 Incident ID: NAPP2417336593

BILL TO ANALYSIS REQUEST



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST			
Company Name: Ensolum, LLC		P.O. #:					
Project Manager: David McInnis dmclnns@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		State: NM Zip: 88220					
Fax #:		City: Carlsbad					
Project #: 03C15584391		Project Owner: XTO					
Project Name: Corral Canyon 21 CVB Heater Treater Dump Line		State: NM Zip: 88220					
Project Location:		Phone #:					
Sample Name: Connor Whitman		Fax #:					
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX <div><input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER :</div>	PRESERV <div><input checked="" type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :</div>	SAMPLING DATE TIME	BTEX TPH CHLORIDE
H244067	F321	0.5	C 1			7-3-24 1255	
	F322					1300	
	F325					1305	
	F324					1310	
	F325					1315	
	F326					1320	
	SUO1	0-0.5'				1325	
	SUO2					1330	
	SUO3					1335	

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Relinquished By: [Signature]		Date: 7-2-24	Received By: [Signature]
Time: 1:55 PM		Date: 7-2-24	
Relinquished By: [Signature]		Date: _____	Received By: [Signature]
Time: _____		Date: _____	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C
REMARKS: Cost Center: 2243641001 Incident ID: NAPP2417336593					



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing 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:	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)

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	07/31/2024	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 BTEX	<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



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

Notes and Definitions

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

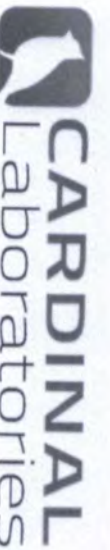
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC

Project Manager: David McInnis

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 409 454 3009

Project #: 03C1558439

Project Name: Comal Canyon 21 CNB Header Transfer Point

Project Location: 32-12544, -103.98241

Sampler Name: Uriel Santillana

BILL TO

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E Green St

City: Carlsbad

State: NM zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth
(feet)

H044536

F507

2'

C

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

X

DATE

TIME

7/26/24

928

X

Chloride

X

TPH

X

BTEX

X

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Relinquished By:

Date: 7/30/24

Received By:

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

Relinquished By: [Signature]

Time: 1425

Received By: [Signature]

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001

Relinquished By:

Date: 7/30/24

Received By:

REMARKS: cost center: 2243641001



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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 01 0.5' (H245321-01)

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	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) 99.3 % 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

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
 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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, 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, SM4500Cl-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



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: 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

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
 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

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

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



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
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

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: 10/10/2024
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

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

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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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

Released to Imaging: 12/2/2024 4:38:26 PM



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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	
Total Xylenes*	0.193	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
Chloride	144	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*	277	10.0	10/11/2024	ND	191	95.6	200	2.95	
EXT DRO >C28-C36	43.2	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



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 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



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 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
Benzene*	0.962	0.500	10/14/2024	ND	2.10	105	2.00	2.37	GC-NC1
Toluene*	29.7	0.500	10/14/2024	ND	2.01	100	2.00	1.33	
Ethylbenzene*	11.8	0.500	10/14/2024	ND	2.01	101	2.00	0.760	GC-NC1
Total Xylenes*	144	1.50	10/14/2024	ND	6.00	100	6.00	0.794	
Total BTEX	186	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
Chloride	2000	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
GRO C6-C10*	3380	10.0	10/11/2024	ND	195	97.7	200	3.92	
DRO >C10-C28*	7000	10.0	10/11/2024	ND	191	95.6	200	2.95	
EXT DRO >C28-C36	765	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 240 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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-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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: David McInnis Address: 3122 National Parks Hwy City: Carlsbad Phone #: 409-454-3009 Project #: 03C1558519 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				BILL TO			
Lab I.D. H244071		Sample I.D. PH01 PH04 PH03 SD		Sample Depth (feet) 5'		DATE 10/9/04	
Sample I.D.		Sample Depth (feet)		DATE		TIME	
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL OTHER:		Sampling BTEX TPH CHLORIDE			
Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		Preserv ACID/BASE: ICE / COOL 					



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
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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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

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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 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, 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	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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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, 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*	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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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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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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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)

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	2.07	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 BTX	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, SM4500Cl-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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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 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)

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*	<0.150	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) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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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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*	0.133	0.050	10/14/2024	ND	2.01	101	2.00	4.53		
Total Xylenes*	0.433	0.150	10/14/2024	ND	6.01	100	6.00	4.47		
Total BTEX	0.565	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	16.0	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*	16.1	10.0	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	327	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	43.7	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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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

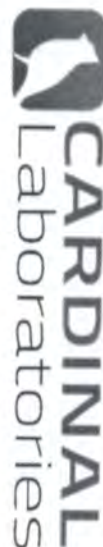
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

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
4246198	5501	3'		1										10/11/89	1015			
	5502			1											1020			
	5503			1											1025			
	5504			1											11:00			
	5505			1											11:05			
	5506			1											1110			
	Ph01B			1											1030			
	Ph03A			1											1200			
	Ph02			1											1215			
	Ph02A			1											1235			

analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential claim damages, including without limitation, business interruption, 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 Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	10-11-24	Received By:	ckr	Verbal Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
	Time:	805			All Results are emailed. Please provide Email address:	Dmcinis@ensolum.com T Morrissey@ensolum.com kthomason@ensolum.com		
Delivered By: (Circle One)	Date:	10-11-24	Received By:		REMARKS:	Cost Center: 224364 1001 Incident ID: NAPP2424045887		
	Time:	8442						
Sampler - UPS - Bus - Other:	Observed Temp. °C	1.3°C	Sample Condition	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only)	Sample Condition
	Corrected Temp. °C	0.7°C		Yes <input type="checkbox"/> No <input type="checkbox"/>	Thermometer ID #	4845	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
				Yes <input type="checkbox"/> No <input type="checkbox"/>	Correction Factor	0.0°C	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.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				BILL TO				ANALYSIS REQUEST															
Project Manager: David McInnis				P.O. #:																			
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.																			
City: Carlsbad				Attn: Colton Brown																			
Phone #: 409-454-3009				Address: 3104 E. Green St.																			
Fax #:				City: Carlsbad																			
Project #: 03C1558519				State: NM				Zip: 88220															
Project Owner: XTO				Phone #:																			
Project Location: Corral Canyon 21 CVB				Fax #:																			
Sampler Name: Jesse Dorman																							
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	BTEX	TPH	CHLORIDE													
H246198	PK92B	5'	61	61	✓	✓	12/10/21 1330	✓	✓	✓													
12	PK92C	6'	61	61	✓	✓	12/10/21 1340	✓	✓	✓													
	SD																						
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																							
Relinquished By:				Date: 10-11-24				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:				All Results are emailed. Please provide Email address:							
Relinquished By: [Signature]				Time: 805				Received By: [Signature]				Cost Center: 2243641001				Incident ID: NAPP2424045887							
Delivered By: (Circle One)				Date: 10-11-24				Received By: [Signature]				Turnaround Time: #140-0.0.0.1				Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/>							
Sampler - UPS - Bus - Other:				Observed Temp.: °C 1.3				Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID: #113				Corrected Temp.: °C 0.72							
				Corrected Temp.: °C 0.72				Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID: #113				Corrected Temp.: °C 0.72							

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Phone: (505) 476-3441

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

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	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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Oil Conservation Division
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Santa Fe, NM 87505

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

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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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Oil Conservation Division
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Santa Fe, NM 87505

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**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 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

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	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

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

On what estimated date will the remediation commence	10/09/2024
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

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

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

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Phone: (505) 476-3441

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

QUESTIONS, Page 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

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 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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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
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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